UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: DEC 19 1984

SUBJECT: Emergency Action at Danville Plating Co., Danville, Illinois

FROM: Basil G. Constantelos, Director
Waste Management Division

TO: John Stanton, Director
Emergency Response Division (WH-548-B)

The On Scene Coordinator's report on the emergency action at Danville Plating Co., Danville, Illinois, initiated on November 29, 1982, and concluded December 13, 1982, is attached. The report follows the format prescribed in the National Contingency Plan.

Open and deteriorating vats of caustic wastes, alongside of vats containing strong acids were found abandoned within a structurally unsound building in Danville, Illinois. An immediate removal action was taken to remove the hazardous substances and decontaminate the building before any harmful releases could occur.

William W. Simes, OSC, undertook the action at a contractor expenditure of $81,200.02.

The site is not listed on the National Priority List.

Attachment

cc. R. Bartelt ✓

ON SCENE COORDINATOR'S REPORT

CERCLA IMMEDIATE REMOVAL PROJECT

NO. 68-95-00 52

DANVILLE PLATING CO., DANVILLE, ILLINOIS

WILLIAM W. SIMES, ON-SCENE COORDINATO

Region V
Environmental Services Division
Spill Response Section

ON-SCENE COORDINATOR'S REPORT

CERCLA IMMEDIATE REMOVAL PROJECT

NO. 68-95-00 52

DANVILLE PLATING CO., DANVILLE, ILLINOIS

WILLIAM W. SIMES, ON-SCENE COORDINATOR

DANVILLE PLATING COMPANY

EXECUTIVE SUMMARY

On November 17, 1982, the US EPA, Region V, Spill Response Section was requested by the Illinois Environmental Protection Agency (IEPA) to inspect the Danville Plating Company, 307 E. Fairchild St., Danville, Illinois, to determine if emergency conditions existed. On November 19, 1982, the assigned OSC, Mr. William Simes, made a joint inspection with IEPA and local officials and found open and severely deteriorating vats of caustic wastes containing up to 7% cyanide and vats containing strong acids in close proximity to each other within a structurally unsound and totally unsecured building. There was a clear danger that acids could react with caustic cyanide wastes, which would have released highly toxic hydrogen cyanide (HCN) gas to the atmosphere, and threatened the lives of the surrounding populace.

The Regional Administrator of Region V approved emergency expenditure of $50,000.00, which was later increased to $81,400.00 by US EPA Headquarters. The Danville School Board, which had recently purchased the property, and the previous owner were notified and given 24 hours in which to initiate a clean-up of the property. Since such action was not forthcoming, the OSC contracted with Petrochem, Inc. of Lemont, Illinois to remove the hazardous substances and decontaminate the building.

Waste removal started on November 29, 1982 and was completed on December 13, 1982. A total of 931 gallons of acids, 2600 gallons of cyanide wastes, 102 drums of contaminated soils and sludge and one drum of zinc cyanide were removed from the site. Removal and disposal costs were $81,200.02. TAT and EPA personnel costs were $9,256.02.

I. Summary of Events
Danville Plating Co.
307 E. Fairchild St.
Danville, Illinois

A. The Danville Plating Company was in the plating business for at least 35 years, processing chromium, copper, zinc and nickel plating. During the last 5 years, ending June 1982, the company was doing little work. On July 16, 1982, the Danville High School District # 128 purchased the property from Mr. Robert Vanatta. The School Board bought the property due to frequent break-ins by students. The property was a local hang-out for students and had been used as a party area. Numerous beer cans and bottles were found in the building.

B. On August 9, 1982, Mr. Perry Fillhauner, whose mother lives next door at 309 Fairchild, called Ms. John Schaffer, the Vermillion County Coordinator for the Illinois Emergency Services and Disaster Agency. Mr. Fillhauner had heard a rumor that hazardous materials were on the Danville Plating Company property. Mr. Schaffer and the County Public Health Officer inspected the facility on August 13. They found a number of vats inside the building. On August 19, a meeting was held with School Board representatives in which the Board stated that they had bought the facility on July 16, and that they had made a verbal agreement with Mr. Vanatta to clean up the facility. Mr. Vanatta stated that there was nothing harmful in the building, "Just some watered down acids." The School Board removed brush, trash and debris from the site during October 1982. During this clean up, they found 21 drums in front of the building. Mr. Venatta said he did not know what the contents of the drums were. The School Board posted the property on November 10. On November 17, 1982, Mr. Schaffer asked IEPA and U.S. EPA to make a hazardous assessment of the facility.

C. On November 19, 1982, the OSC met with Mr. Jim Kelty and Mr. Gary Steel of the Illinois Environmental Protection Agency, Mr. Schaffer a representative of the County Public Health Department, Danville Fire and Police Department and Mr. Ray Scarce, the Director of Maintenance and Grounds for the School District. The history of the facility and problems were discussed. Jim Kelty, Gary Steel and the OSC made an assessment of the site. We found the building in an advanced state of decay. The roof had blown away in several places and the walls of the building had vertical cracks from the ground to the ceiling through which sunlight could be seen. The building was divided into three rooms. The center room had a large amount of trash and debris. The west room contained five vats, two were full of a caustic liquid (pH 11). Several vats had rusted through and their contents were on the floor. Draeger tube readings for HCN indicated 20 ppm in the air above the vats, and 5 ppm above the floor (See Sketch, Figure 1).

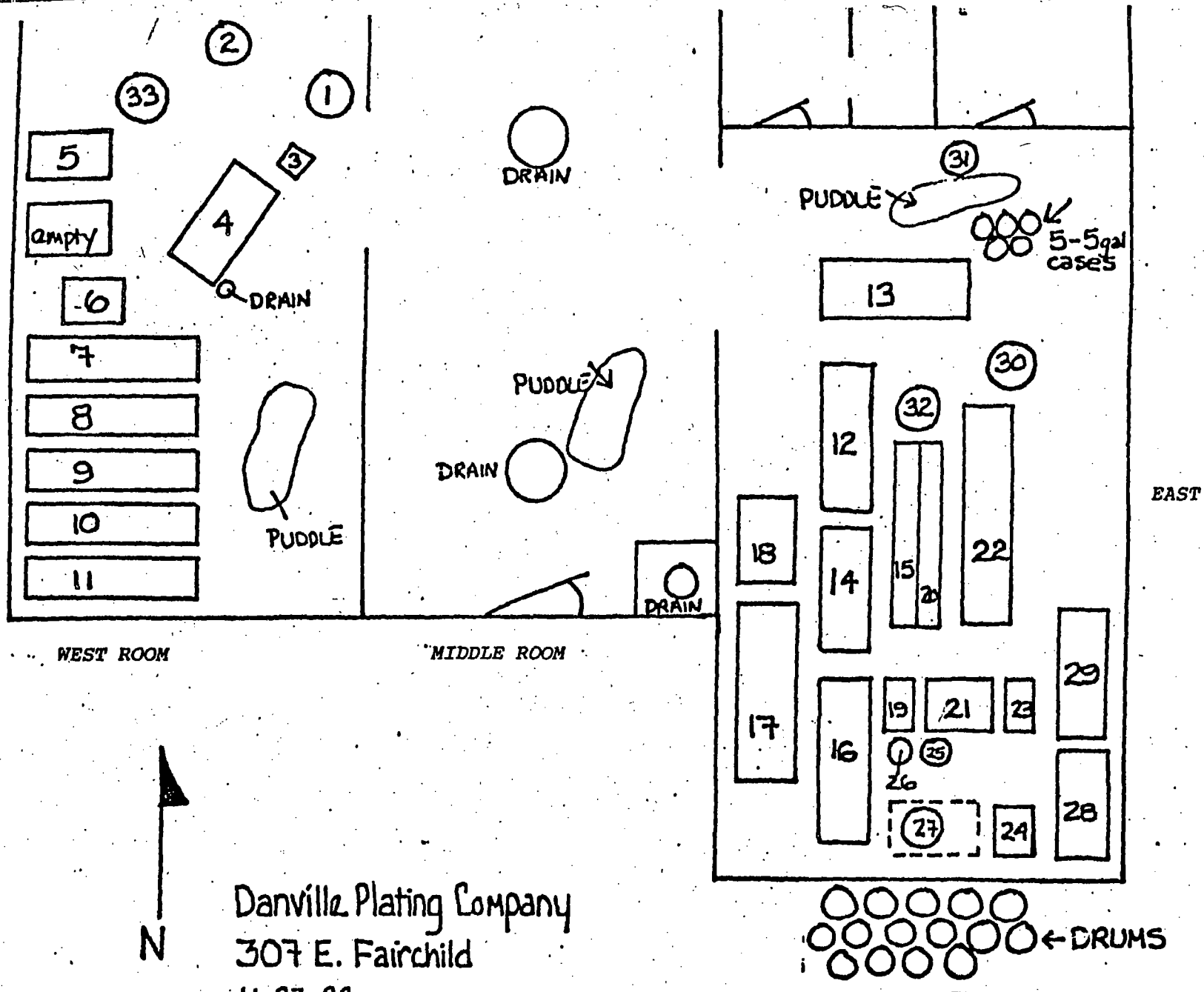
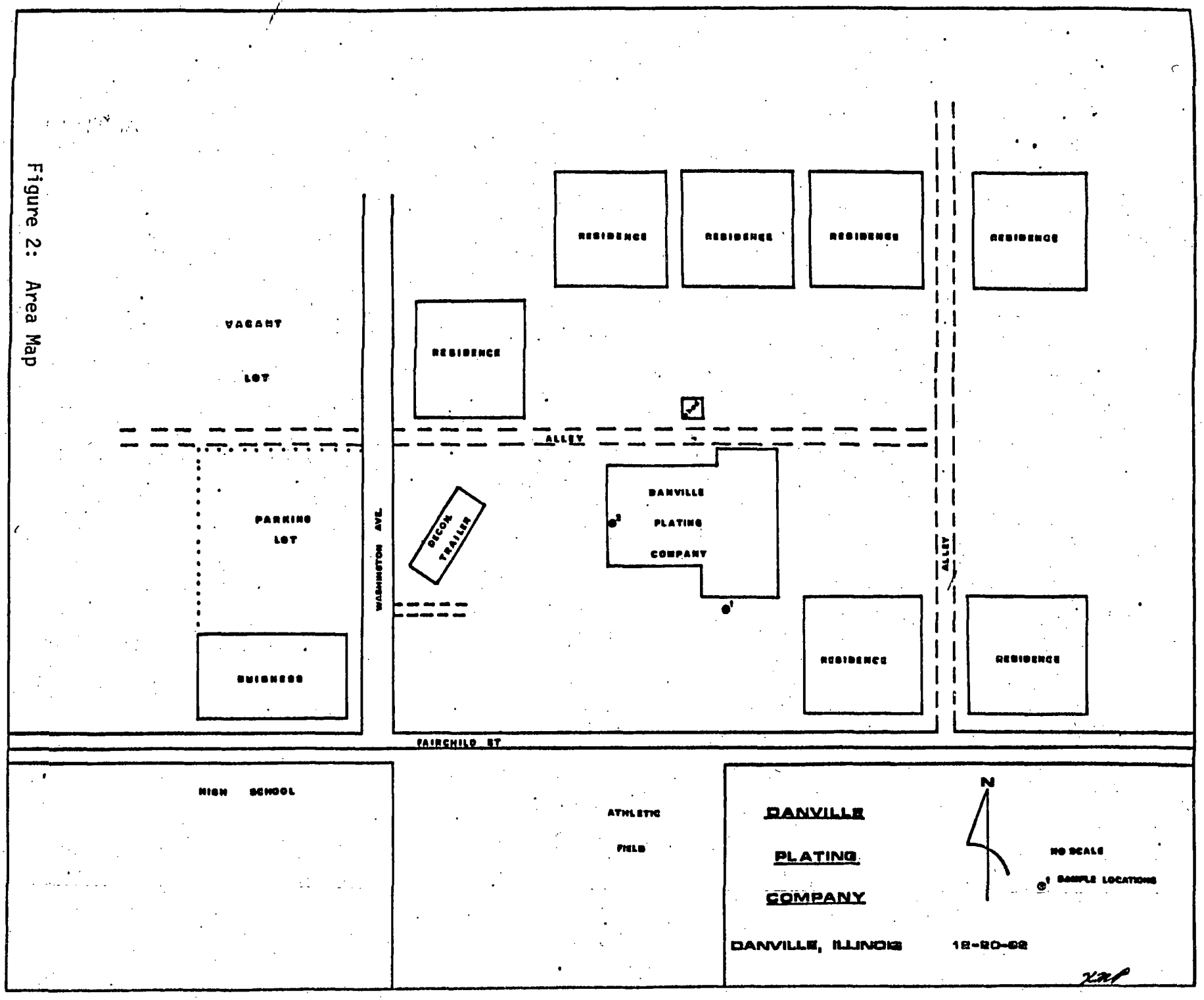


Figure 1, Sketch

The east room contained approximately 17 vats filled with acids and caustics ranging from pH 2 to 14. HCN readings indicated cyanide in the air above the vats. No organic vapors or oxygen deficiencies were found. The vats were in poor condition and some had overflowed due to leaking water from the ceiling. The caustic and acid vats were within several feet of each other. Due to the condition of the vats and building, there was a major threat that the acids could mix with the caustic cyanides causing release of a cloud of HCN. The neighborhood in which the facility is located is residential. The nearest house from the building was 5 ft. away. Danville High School is located 50 yards from the property and at least 10 houses are within 150 yds of the facility (See Figure 2). A major street, Fairchild Street, fronts the property. Both the State OSC, Jim Kelty and myself agreed that an emergency situation existed and that immediate action had to be taken due to the threat of a release. Mr. Vanatta and the School District were notified by the OSC that an immediate clean up action was required. We gave both parties until close of business Monday, November 22, 198, to take an action. On Monday, the School Board's Attorney, Mr. Wendell Wright, told Mr. Kelty that the School Board felt that the clean up was not their responsibility and that they would not clean up site. Mr. Vanatta's Attorney, Mr. Acton, had a conference call between Mr. Kelty, Mr. Nelson (an IEPA Attorney), John Renkes (Head of the IEPA Emergency Response Unit), Mr. Robert Leininger (U.S. EPA Attorney) and the OSC, Mr. Acton requested that his client be given a chance to clean up the site (Wednesday, November 24, 1982, at 1:00 p.m., was the agreed deadline). Wednesday morning, Mr. Vanatta contacted John Renkes and offered to clean up the site for $4,000.00. The company Mr. Vanatta wanted to use, was not a licensed waste removal company and would not be able to take an action within 2 weeks. This was not acceptable as the cost was estimated at $75,000.00 by 3 licensed waste handlers contacted by IEPA to give the responsible parties an idea of what the clean up costs would be. Mr. Renkes contacted the OSC and said the state would not have sufficient funds available for at least a month. Mr. Renkes and the OSC agreed that over two weeks was too long for responsible party action and that Federal action was required.

Figure 2: Area Map



On Tuesday, November 23, 1982, the OSC and Ms. Sue Ahrendt from The Technical Assistance Team (TAT) visited the site, did a thorough inspection and completed a Safety Plan (See Appendix D).

On Wednesday, November 24, 1982, EPA Headquarters was notified of the situation and advised that this site was appropriate for use of the Regional Administrator's Authority for emergency removal. At approximately 4:00 p.m., the Regional Administrator approved the use of $50,000.00 and Headquarters approved an additional $31,400.00. Petrochem Services, Inc., a licensed contractor on the resource list, was awarded Contract # 68-95-0052.

II. Removal Activities

Friday, November 26, 1982 - Representative samples were taken of all liquids and solids by Environmental Consultants, Inc. Lime was put on the floor to neutralize acid. A waterline which had ruptured was repaired. With the help of the Sewer Department, all drains were traced and confirmed with a dye test. The Danville Auxiliary Police Association was to provide 24 hour site security. The Vermillion City ESDA supplied continuous radio communication to the Danville Fire Department, the Danville Police and the local hospital.

Monday, November 29, 1982 - The contractor set up equipment, drummed contaminated dirt and debris from both the middle and west rooms, neutralized and solidified liquid materials from vats in the west room and drummed a sewer line dug up and broken by the Danville Sewer Department. TAT and state monitored for HCN. In the area, five homes were evacuated during neutralization of cyancide caustic in the west room. One person refused to leave. Evacuation lasted two hours. No HCN was detected in the atmosphere.

Tuesday, November 30, 1982 - Contractor removed and drummed sludge and solid material from vats in the west room, decontaminated and removed vats from west room and drummed sludge and dirt from the west room floor.

Wednesday, December 1, 1982 - The Contractor washed and decontaminated the west room walls and floor and removed wooden platforms from the east room.

Thursday, December 2, 1982 - 931 gallons of liquid acid wastes were shipped to Envirite, a hazardous waste treatment facility in Harvey, Illinois. Empty acid vats were decontaminated and removed.

Friday, December 3, 1982 - Sludge from acid vats was solidified and drummed. Decontamination and removal of vats was completed.

Monday, December 6, 1982 - The Contractor removed 2600 gallons of liquid caustics to Envirite, and began solidifying drumming sludge from vats.

Tuesday, December 7, 1982 - The Contractor continued to remove sludge from vats and drums, and started decontaminating east room vats and drums.

Wednesday, December 8, 1982 - The Contractor completed decontaminating vats and drums and washed and decontaminated east room walls and floor.

Thursday, December 9, 1982 - The Contractor completed decontaminating east room, treated soil in drum storage area, prepared drums for disposal and completed decontamination of the middle room's drains and floor.

Friday, December 10, 1982 - The Contractor decontaminated equipment and loaded 30 disposal drums. Waste wash water was sent to Chem-clear, a hazardous waste treatment facility at Harvey, Illinois. Loaded equipment was returned to its base.

Monday, December 13, 1982 - The Contractor transported the remaining drums to the CECOS' hazardous waste site in Cincinnati, Ohio.

Tuesday, December 21, 1982 - The Contractor delivered a drum of zinc cyanide to Modern Plating in Chicago, Illinois.

After all contract work was completed, Petrochem, under a separate contract with the School Board, removed the building and graded the site.

A total of 931 gallons of acids, 2600 gallons of cyanide waste, 102 drums of contaminated soils and 2000 gallons of decontamination water were removed from the site.

III. Disposal Strategy

The wastes were disposed of at three different sites due to the characteristics of the wastes. The liquid caustic cyanides and acids were treated by Envirite due to Envirite being the nearest treatment facility which could take the materials in liquid form in bulk, thereby, reducing the costs and the time required to remove the materials from the site. The solids and sludges were removed to CECOS, it being the closest facility which could take the highly cyanidic solids. The decontamination water was treated at Chem-Clear due to the low cost treatment.

IV. Community Relation
(See Appendix G for CRAP)

The local public appeared very satisfied with the emergency action. The news media comments were positive and helped in not unduly alarming the public. The use of the local city public affairs officer helped considerably in disseminating information and addressing local concerns.

V. Public Health

Due to the removal of the wastes, the treatment of contaminated sediments on site and the timely evacuation of local citizens during the removal of the most hazardous materials and the continuous air monitoring conducted through-out the operation, public health was given the the maximum safeguard possible.

VI. Effectiveness of Removal Actions

A. Responsible Parties. Both responsible parties did not take action. Mr. Vanatta, the former owner, did not have the financial resources to take timely corrective action and the current owner, the Danville School Board, felt it was not their responsibility. The project has been referred to the Office of Regional Counsel for cost recovery action.

B. State and Local Officials. Mr. Jim Kelty and Mr. Geoff Langley of the IEPA Emergency Response Section and Gary Steele of IEPA Land Division were on site almost continually and provided assistance and advice on State

disposal requirements. Mr. John Schaefer, the Vermillion County ESDA Coordinator was always available for local coordination with county, city and public utility officials. Mr. Schaefer had a radio truck on site, manned by local volunteers to provide emergency communications. Vermillion County ESDA also provided a generator and their public affairs officer handled all local information distribution. Both the City of Danville and the county officials were very cooperative. Mr. Schaefer was primarily responsible for the cooperation and resources that were provided by the local government agencies.

C. Federal Agencies. The objective of the immediate removal was to provide a timely removal of the caynidic caustics and acids as safe as possible.

D. Contractors. Petro Chem at Lemont, Illinois performed the required work in a timely and efficient manner. Their suggestions, cooperation and professional organization were a large factor in the safe and expedient removal of this threat to the public.

VII. Problems Encountered.

A. There was a hold up due to waiting for analysis from Envirite to see if they could accept the waste, three days for the acids and five days for the caustics. The OSC would have liked to remove the wastes more quickly due to the threat of the mixing of acids and bases. Though this did not interfere with the progress of the removal, it did increase the length of time the hazard existed.

RECOMMENDATIONS

The OSC recommends that future closings of plating and related industries be more closely monitored by local, state and Federal agencies to assure that they meet RCRA Requirements. Prior meetings with local and state officials should be held to facilitate the coordination needed for an efficient operation.

APPENDICES

A - A Copy of Contract and Associated CERCLA Documents

B - State Report

C - County ESDA Report

D - Shipping Documents

E - CRL Report

F - Shipping Documents

G - Community Action Plan

H - Notes from Regional Counsel

I - Cost Breakdown

J - TAT Reports

ON SCENE COORDINATOR'S REPORT

CERCLA IMMEDIATE REMOVAL PROJECT

NO. 68-95-00 52

DANVILLE PLATING CO., DANVILLE, ILLINOIS

APPENDICIES

Region V
Environmental Services Division
Spill Response Section

ON-SCENE COORDINATOR'S REPORT

CERCLA IMMEDIATE REMOVAL PROJECT

NO. 68-95-00 52

DANVILLE PLATING CO., DANVILLE, ILLINOIS

APPENDICIES

WILLIAM W. SIMES, ON-SCENE COORDINATOR

DANVILLE PLATING COMPANY

CERCLA DAILY WORK ORDER

Page 1 of 1

Work Site: Danville Plating

Contract No.: 68-95-0052

Site/Spill No.:

Location and Region: Danville, IL Region V

Date: 11/29/82

Shift:

Contractor: Petrochem

On-Site Representative:

1. MONITOR(S)

Bill Simes, OSC/U.S. EPA

Scott McCone and Lisa Perenchio (TAT) Ecology and Environment

2. DESCRIPTION OF WORK TO BE PERFORMED

Set up command post, pick up debris, secure area, set up drainage system, commence solidification in west room.

3. AMENDMENTS (Include Time and Authorizing Person)

4. NUMBER OF PERSONNEL AUTHORIZED

1 Supervisors
1 Laborers
2 Foreman
____ Other (Specify): _____
3 Operators

5. EQUIPMENT AND EXPENDABLE MATERIALS AUTHORIZED

Item	Quantity	Item	Quantity
Level C Protection	2/man/day		

I certify that the above work is ordered and authorized by the contractor in the performance of the above cited contract.

I fully understand my obligation to the EPA in the conduct of my contract, and as directed by the confines of this Work Order.

Signature of OSC Representative: William Simes

Signature of Contractor's Representative: Marion W. Cole

CERCLA DAILY WORK ORDER

Page 1 of 1

Work Site: Danville Plating Company

Contract No.: 68-95-0052

Site/Spill No.:

Location and Region: Danville, Illinois

Date: 11-30

Shift: 1

Contractor: Petrochem Services, Inc.

On-Site Representative: William W. Simes

1. MONITOR(S)

Lisa Perenchio

Scott McCone

2. DESCRIPTION OF WORK TO BE PERFORMED

A. Solidify and/or place contaminated solids present in west room in 55 gallon drums for disposal.
B. Decontaminate walls and floor of west room and collect wash water.
C. Decontaminate containers and debris in west room and remove material from building.
D. Commence solidification of caustic liquids in east room.
E. Maintain site security.
F. Maintain site safety plan.

3. AMENDMENTS (Include Time and Authorizing Person)

4. NUMBER OF PERSONNEL AUTHORIZED

2 Supervisors
2 Laborers
1 Foreman
1 Other (Specify): Aux. Police
3 Operators

5. EQUIPMENT AND EXPENDABLE MATERIALS AUTHORIZED

Item	Quantity	Item	Quantity
Vacuum truck	1	Protective clothing	14
Lights w/ generators	2	55 gallon drums	60
Bobcat loader	1	Utility truck	1
Compressor w/hose	1	Box van	1
Cement Mixer	1	Crew Vehicles	3
Pumps w/hose	2	Scaffolding	1
Decon trailer	1		

I certify that the above work is ordered and authorized by the contractor in the performance of the above cited contract.

I fully understand my obligation to the EPA in the conduct of my contract, and as directed by the confines of this Work Order.

Signature of OSC Representative: William W. Simes

Signature of Contractor's Representative: Harrison W. Cox

CERCLA DAILY WORK ORDER

Page 1 of 1

Work Site: Danville Plating Co.

Contract No.: 68-95-0052

Site/Spill No.:

Location and Region: Danville, Illinois

Date: 12/1/82

Shift: 1

Contractor: Petrochem Services, Inc.

On-Site Representative: William W. Simes

1. MONITOR(S)

Mark Henke

Jeff Stofferahn

2. DESCRIPTION OF WORK TO BE PERFORMED

A. Decontaminate walls and floor of west room and collect wash water in west room.
B. Decontaminate containers, debris and wood in the east room and collect wash water.
C. Remove material from building
D. Maintain site security
E. Maintain Site Safety Plan

Petrochem crew dismantled the wood scaffolding within the building. The floors , walls, and ceiling were sprayed with Cl^- solution (for cleaning)

3. AMENDMENTS (Include Time and Authorizing Person)

4. NUMBER OF PERSONNEL AUTHORIZED

2 Supervisors
2 Laborers
1 Foreman
1 Other (Specify): Aux. Police
3 Operators

5. EQUIPMENT AND EXPENDABLE MATERIALS AUTHORIZED

Item	Quantity	Item	Quantity
Vacuum truck	1	Protective clothing	
Light w/ generators	2	Utility truck	
Bobcat loader	1	Box van	
Compressor w/hose	1	Crew vehicles	
Pumps w/ hose	2	Scaffolding	
DeCon trailer	1		

I certify that the above work is ordered and authorized by the contractor in the performance of the above cited contract.

I fully understand my obligation to the EPA in the conduct of my contract, and as directed by the confines of this Work Order.

Signature of OSC Representative: William W. Simes

Signature of Contractor's Representative: Norman D. Cone

Work Site: Danville Plating Co.	Contract No.: 68-95-0052	Site/Spill No.:
Location and Region: Danville, Il Region I	Date: 12/2/82	Shift:
Contractor: PETROCHEM	On-Site Representative: Bill Simes	

1. MONITOR(S)

Weston-Sper TAT

2. DESCRIPTION OF WORK TO BE PERFORMED

Acid vats will be bulked and prepared for disposal. Empty vats will be decontaminated. Building walls, ceiling and floors will be decontaminated with a CL^- solution. The building will also be cleared of debris.

3. AMENDMENTS (Include Time and Authorizing Person)

4. NUMBER OF PERSONNEL AUTHORIZED

2 Supervisors
5 Laborers
____ Foreman
____ Other (Specify): _____
____ Operators

5. EQUIPMENT AND EXPENDABLE MATERIALS AUTHORIZED

Item	Quantity	Item	Quantity
Vac truck #270		Air compressor, mixer, pump	
#6 van		Bobcat	
Pick up truck #9		2" double dia pump	
Trans vehicle		6-sec hose (2)	
Vehicle #7		Respiratory system	
Decon trailer		Scaffolding	
Van #377		Generator & Lights	

I certify that the above work is ordered and authorized by the contractor in the performance of the above cited contract.	I fully understand my obligation to the EPA in the conduct of my contract, and as directed by the confines of this Work Order.
Signature of OSC Representative: William M. Simes	Signature of Contractor's Representative: Marcus W. Cox

CERCLA DAILY WORK ORDER

Page 1 of 1

Work Site: Danville Plating	Contract No.: 69-95-0052	Site/Spill No.:
Location and Region: Danville, Il Region V	Date: 12/3/82	Shift:
Contractor: PETROCHEM	On-Site Representative: Bill Simes	

1. MONITOR(S)

Wesron-Sper TAT

2. DESCRIPTION OF WORK TO BE PERFORMED

Acid vats will be bulked and disposed, Site maintenance will carry on.

3. AMENDMENTS (Include Time and Authorizing Person)

4. NUMBER OF PERSONNEL AUTHORIZED

2 Supervisors
5 Laborers
1 Foreman
____ Other (Specify): _____
____ Operators

5. EQUIPMENT AND EXPENDABLE MATERIALS AUTHORIZED

Item	Quantity	Item	Quantity
Vac truck #270		Air compressor, mixer, pump	
Van #6		scaffolding	
Pick up truck #9		Bobcat	
Trans vehicle		2" double Dia pump	
Vehicle #7		6-sec hose (2)	
Decon trailer		Respiratory system (7)	
Van #377		Generator & lights	

I certify that the above work is ordered and authorized by the contractor in the performance of the above cited contract.

I fully understand my obligation to the EPA in the conduct of my contract, and as directed by the confines of this Work Order.

Signature of OSC Representative: William Weston

Signature of Contractor's Representative: Marion D. Carr

CERCLA DAILY WORK ORDER

Page 1 of 1

Work Site: Danville Plating Co.

Contract No.: 68-95-0052

Site/Spill No.:

Location and Region: Danville, Illinois

Date: 12-6-82

Shift: 1

Contractor: Petrochem Services, Inc.

On-Site Representative: William Simes

1. MONITOR(S)

Doug Ballotti

Kevin Pierard

2. DESCRIPTION OF WORK TO BE PERFORMED

A. Compatability study on drums
B. Take samples from vats & drums for analysis
C. Clean and neutralize floor with bleach and collect runoff.
D. Clean vats, TAT test vat with acid after cleaning for Cn gas.
E. Maintain site security
F. Maintain site safety plan

3. AMENDMENTS (Include Time and Authorizing Person)

4. NUMBER OF PERSONNEL AUTHORIZED

2 Supervisors
2 Laborers
1 Foreman
1 Other (Specify): _____
3 Operators

5. EQUIPMENT AND EXPENDABLE MATERIALS AUTHORIZED

Item	Quantity	Item	Quantity
~~Vacuum truck~~	1	Compressor w/hose	1
Vans	2	Bobcat loader	1
Pick up truck	1	Generator w/lights	1
DeCon trailer	1	Scaffolding	
Crew vehicles	2	Protective clothing	
Pump w/hose	2	Respiratory system	
Cement mixer	1	Draeger	

I certify that the above work is ordered and authorized by the contractor in the performance of the above cited contract.

I fully understand my obligation to the EPA in the conduct of my contract, and as directed by the confines of this Work Order.

Signature of OSC Representative: William V. Simes

Signature of Contractor's Representative: Marion D. Cox

CERCLA DAILY WORK ORDER

Page 1 of 1

Work Site:	Contract No.:	Site/Spill No.:
Danville Plating Co.	68-95-0052	

Location and Region:	Date:	Shift:
Danville, Illinois	12/7/82	1

Contractor:	On-Site Representative:
Petrochem Services, Inc.	William Simes

1. MONITOR(S)

Doug Ballotti
Kevin Pierard

2. DESCRIPTION OF WORK TO BE PERFORMED

A. ~~Clean vats with water and bleach~~
B. ~~Acid test vats for Cn gas~~
C. ~~Collect solids from vats and put in overpacks with lime and bleach.~~
D. Clean and neutralize floor w/bleach, collect runoff
E. maintain site security
F. Maintain site safety plan

3. AMENDMENTS (Include Time and Authorizing Person)

4. NUMBER OF PERSONNEL AUTHORIZED

1 Supervisors
2 Laborers
1 Foreman
1 Other (Specify): Aux. Police
3 Operators

5. EQUIPMENT AND EXPENDABLE MATERIALS AUTHORIZED

Item	Quantity	Item	Quantity
Vacuum truck	1	Compressor w/hose	1
Vans	2	Bobcat loader	1
Pickup truck	1	Generator w/lights	1
DeCon trailer	1	Scaffolding	
Crew vehicles	2	Protective clothing	
Pumps w/hoses	2	Respirator systems	
Cement mixer	1	Draeger	

I certify that the above work is ordered and authorized by the contractor in the performance of the above cited contract.

I fully understand my obligation to the EPA in the conduct of my contract, and as directed by the confines of this Work Order.

Signature of OSC Representative: William A. Sims

Signature of Contractor's Representative: Harold D. Cone

CERCLA DAILY WORK ORDER

Page 1 of 1

Work Site:	Contract No.:	Site/Spill No.:
Danville Plating Co.	68-95-0052	1

Location and Region:	Date:	Shift:
Danville, Illinois	12/8/82	1

Contractor:	On-Site Representative:
Petrochem Services	William Simes

1. MONITOR(S)

Doug Ballotti

Kevin Pierard

2. DESCRIPTION OF WORK TO BE PERFORMED

A. Remove solid waste from remaining vats put into drums with lime and chlorine.
B. Clean and neutralize vats with water and chlorine
C. Monitor reactions of Cl and solid waste in drums for Cn.
D. Acid test vats for Cn
E. Begin neutralization of floor
F. Maintain site safety plan
G. Maintain site security

3. AMENDMENTS (Include Time and Authorizing Person)

4. NUMBER OF PERSONNEL AUTHORIZED

1 Supervisors
2 Laborers
1 Foreman
1 Other (Specify): Aux. Police
3 Operators

5. EQUIPMENT AND EXPENDABLE MATERIALS AUTHORIZED

Item	Quantity	Item	Quantity
Vacuum truck	1	Compressor w/hose	1
Vans	2	Bobcat loader	1
Pickup truck	1	Generator w/lights	1
DeCon trailer	1	Scaffolding	
Crew vehicles	2	Protective clothing	
Pumps w/hoses	2	Respiratory system	
Cement mixer	1	Lime and Chlorine	

I certify that the above work is ordered and authorized by the contractor in the performance of the above cited contract.

I fully understand my obligation to the EPA in the conduct of my contract, and as directed by the confines of this Work Order.

Signature of OSC Representative: William Simes

Signature of Contractor's Representative: Marion W. Cone

CERCLA DAILY WORK ORDER

Page 1 of 1

Work Site: Danville Plating Company

Contract No.: 68-95-0052

Site/Spill No.: 1

Location and Region: Danville, Illinois

Date: 12/9/82

Shift: 1

Contractor: Petrochem Services

On-Site Representative: William Simes

1. MONITOR(S)

Doug Ballotti

Kevin Pierard

2. DESCRIPTION OF WORK TO BE PERFORMED

A. Neutralize building floor
B. Acid check floor dor Cn
C. Mix soil at south end of building w/lime and bleach
D. Decon equipment
E. Maintain site security
F. Maintain site safety plan

3. AMENDMENTS (Include Time and Authorizing Person)

4. NUMBER OF PERSONNEL AUTHORIZED

1 Supervisors
2 Laborers
1 Foreman
1 Other (Specify): Aux. Police
3 Operators

5. EQUIPMENT AND EXPENDABLE MATERIALS AUTHORIZED

Item	Quantity	Item	Quantity
Vacuum truck	1	Compressor w/hose	1
Vans	2	Bobcat loader	1
Pickup truck	1	Generator w/lights	1
Decon trailers	1	Scaffolding	
Crew vehicles	2	Protective clothing	
Pumps w/hoses	2	Respiratiry system	
Mixer	1	Draeger	

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I fully understand my obligation to the EPA in the conduct of my contract, and as directed by the confines of this Work Order.

Signature of OSC Representative: William Simes

Signature of Contractor's Representative: Marion A. Cox

CERCLA DAILY WORK ORDER

Page 1 of 1

Work Site:	Contract No.:	Site/Spill No.:
Danville Plating Co.	68-95-0052	1

Location and Region:	Date:	Shift:
Danville, Illinois	12/10/82	1

Contractor:	On-Site Representative:
Petrochem Services	William Simes

1. MONITOR(S)

Doug Ballotti

Kevin Pierard

2. DESCRIPTION OF WORK TO BE PERFORMED

A. Decontaminate equipment
B. Remove most of equipment

3. AMENDMENTS (Include Time and Authorizing Person)

4. NUMBER OF PERSONNEL AUTHORIZED

1 Supervisors
1 Laborers
1 Foreman
1 Other (Specify): Aux. Police
3 Operators

5. EQUIPMENT AND EXPENDABLE MATERIALS AUTHORIZED

Item	Quantity	Item	Quantity
Vacuum truck	1	Compressor w/hose	1
Vans	2	Bobcat loader	1
Pickup truck	1	Generator w/lights	1
Decon trailer	1	Scaffolding	
Crew vehicles	2	Respiratory system	
Pumps w/hoses	2	Protective clothing	
Mixer	1	Draeger	

I certify that the above work is ordered and authorized by the contractor in the performance of the above cited contract.

I fully understand my obligation to the EPA in the conduct of my contract, and as directed by the confines of this Work Order.

Signature of OSC Representative: William Simes

Signature of Contractor's Representative: Marion D. Cone

CERCLA DAILY WORK ORDER

Page 1 of 1

Work Site:	Contract No.:	Site/Spill No.:
Danville Plating Co.	68-95-0052	1

Location and Region:	Date:	Shift:
Danville, Illinois	12/13/82	1

Contractor:	On-Site Representative:
Petrochem Services	William Simes

1. MONITOR(S)

Kevin Pierard

2. DESCRIPTION OF WORK TO BE PERFORMED

A. Remove Drums

3. AMENDMENTS (Include Time and Authorizing Person)

4. NUMBER OF PERSONNEL AUTHORIZED

___ Supervisors
3 Laborers
___ Foreman
___ Other (Specify): _____
___ Operators

5. EQUIPMENT AND EXPENDABLE MATERIALS AUTHORIZED

Item	Quantity	Item	Quantity
Pickup truck	1		
Van	1		
Bobcat	1		

I certify that the above work is ordered and authorized by the contractor in the performance of the above cited contract.	I fully understand my obligation to the EPA in the conduct of my contract, and as directed by the confines of this Work Order.
Signature of OSC Representative: William Simes	Signature of Contractor's Representative: Marion W. Cone

CERCLA DAILY WORK ORDER		Page 1 of 1
Work Site: Danville Plating	Contract No.: 68-55-0052	Site/Spill No.: 1
Location and Region: Danville, Illinois Region V	Date: 12/14/82	Shift: 1
Contractor: PETROCHEM SERVICES	On-Site Representative: None	

1. MONITOR(S)

2. DESCRIPTION OF WORK TO BE PERFORMED

A. Return from Cecos disposal facility

3. AMENDMENTS (Include Time and Authorizing Person)

4. NUMBER OF PERSONNEL AUTHORIZED

___ Supervisors
1 Laborers

___ Foreman
___ Other (Specify): ___

___ Operators

5. EQUIPMENT AND EXPENDABLE MATERIALS AUTHORIZED

Item	Quantity	Item	Quantity
Van #377	1		

I certify that the above work is ordered and authorized by the contractor in the performance of the above cited contract.

I fully understand my obligation to the EPA in the conduct of my contract, and as directed by the confines of this Work Order.

Signature of OSC Representative: [signature]

Signature of Contractor's Representative: [signature]

CERCLA DAILY WORK ORDER

Work Site: Danville Plating	Contract No.: 68-95-0052	Site/Spill No.:
Location and Region: Danville, IL	Date: 12-21-82	Shift:
Contractor: Petrochem	On-Site Representative:	

1. MONITOR(S)

None

2. DESCRIPTION OF WORK TO BE PERFORMED

Delivery of product zinc cyanide to Chicago Modern Plating, 3029 West Rockwell.

3. AMENDMENTS (Include Time and Authorizing Person)

4. NUMBER OF PERSONNEL AUTHORIZED

____ Supervisors
____ Laborers
____ Foreman
1 Other (Specify): Driver
____ Operators

5. EQUIPMENT AND EXPENDABLE MATERIALS AUTHORIZED

Item	Quantity	Item	Quantity
Truck #8	1		

I certify that the above work is ordered and authorized by the contractor in the performance of the above cited contract.

Signature of OSC Representative: [signature]

I fully understand my obligation to the EPA in the conduct of my contract, and as directed by the confines of this Work Order.

Signature of Contractor's Representative: [signature]

DAILY SUMMARY CERCLA CLEANUP

Date: 11-29-82 | Time Commenced Work: 0830 | Time Completed Work: 1800

Facility:
Danville Plating Company

Contractor(s):
Petrochem

Type of Personnel: 2-Superintendents, 1-Supervisor, 3-Operators, 1-Laborer

Equipment Utilized: Utility truck, air compressor, decontamination trailer, 2-Personnel Vehicles, Vacuum truck, Bobcat, Level "C" protective equipment - 2 sets/day/man, Drum Cart, 250' Air/water hose, 25-Recovery drums, 2-Air diaphragm pumps, 125' Suction discharge hose, 2-Generators with lights.

Scope of Work Completed:
Mobilization; building was opeed up for light and ventilation, Liquids in vats on west side of building were pumped out and material was solidified, cyanide drum was put into a recovery drum and packed with vermiculite.

Comments:
Residents downwind were evacuated during solidification. One resident Mr. Lockhart, refused to leave and was warned that he was remaining at his own risk. Electrical lines to building were cut after it was discovered that there was still power going to the building.

Future Plans:
Wash down and removal of empty vats and debris in west side of building. The floor will be scraped and washed down in west side. Disposal options of materials in east side of building will be decided.

DAILY SUMMARY CERCLA CLEANUP

Date:	Time Commenced Work:	Time Completed Work:
Nov. 30	0745	1630

Facility: Danville Plating Company

Contractor(s): Petrochem

Type of Personnel: 2-Superintendents, 1- Supervisor, 3-Operators, 2- Laborers.

Equipment Utilized: Equipment van. Utility truck. Air compressor. Decontamination trailer. 2-Personnel vehicles. Vacuum truck, Bobcat, Level "C" protective equipment. 2-sets/day/man, Drum cart, 250' Air/water hose, 25- Recovery drums, 2-Air diaphragm pumps, 125' suction discharge hose 2-Generators with lights.

Scope of Work Completed: Sludges in vats were solidified and put into drums. Empty vats and debris were decontaminated and removed from west side of building. Floor in west side was scraped. Floor in middle room was washed down. Wash water was sucked into vacuum truck.

Comments: A composite sample of the liquids in east room was sent to CECOS/CER who may take them to their landfill in Calumet.

Future Plans: Wash down of floor in west room removal and washdown of debris in east room.

DAILY SUMMARY CERCLA CLEANUP

Date: 12-1	Time Commenced Work: 0800	Time Completed Work: 1530

Facility: Danville Plating Co.

Contractor(s): Petrochem Environ Consultant Lab

Subcontractors: Danville Aux. Police, Envirite Lab.

Type of Personnel:
1- Field Siperintendent, 1- field Supervisor, 1- Tech, 5-Laborers

Equipment Utilized:
Vac Truck #270, #6 van, pickup truck #9, Grand Prix, #7 Vehicle, Decon trailer, Van #377, Air compressor (rented), High pressure Blaster, Bobcat, scaffolding, 2" Double Dia pump, hose, air hose, generator & lights.

Scope of Work Completed:
Petrochem dismantled the wood planks around the vats then de-conned them for disposal. The building (walls, ceiling, floor) was deconned with a Hypochlorite solution. The cyanide crystals and sludge was removed from the building area.

Comments:

Future Plans:
Continue the removal of the sludge and the dismantling of the vats.

DAILY SUMMARY CERCLA CLEANUP

Date:	Time Commenced Work:	Time Completed Work:
12-2-82	0800	1600

Facility:
Danville Plating Co.

Contractor(s):
Petrochem

Type of Personnel:
1-Field Supervisore, 1-Field Superintendent, 1-Technician, 5-Laborers

Equipment Utilized:
Van #6, Vac truck #270, Pickup truck #9,transportation vehicle, Vehicle #7, Decon trailer, Van #377, Air compressor, Mixer, Pump, Bobcat, 2" Double Dia Pump, 6sec-hose, 6sec-hose, 7-Respiratory systems, scaffolding, generator 7 lights.

Scope of Work Completed:
The acid vats were pumped and disposed by envirite labs. The municipal waste (wwod planks, etc.) was hauled away by Duckett Disposal. A partial load of vats have been loaded for disposal.

Comments:
A bill of materials was drawn up for Newmeister Plating Co., who recieved approximately 25-30 different bottles of solutions used in the plating industry.

Future Plans:
Once the lab analysis of the caustics is known the disposal route can be determined. (bulked or solidified). The sewer hole in the building will be widened and hypochlorite solution will be poured in to decontaminate the ground water.

DAILY SUMMARY CERCLA CLEANUP

Date: 12-6-82	Time Commenced Work:	Time Completed Work:

Facility:
Danville Plating Co.

Contractor(s):
Petrochem

Type of Personnel:
~~1-Technician Supervisor, 1-Field Supervisor and 6- Laborers.~~

Equipment Utilized:
#270 Vac truck, #6 van, #9 pick up truck, Buick, #6 vehicle, Decon trailer, #377 van, air compressor, mixer, scaffolding, pump,Bobcat, Double Dia pump 2", 6 sec-hose. air hoses (6), respiratory system, generator & Lights, draegers.

Scope of Work Completed:
Contractors did compatability studv on drum contents and determined that all drums contents could be placed in caustic tanker. Contractors took samples of vats and drums, for analysis. Samples contained crystals and sludges. Contractors cleaned and neutralized floor with bleach; runoff was pumped into tankers. Contractors cleaned 4 vats with

Comments: bleach and water. TAT acid tested vats for Cn and produced two positive results. Those vats were removed and cleaned again.

Future Plans:
Continue cleaning and acid testing vats.

DAILY SUMMARY CERCLA CLEANUP

Date:	Time Commenced Work:	Time Completed Work:
12-7-82	0730	1530

Facility: Danville Plating Co.

Contractor(s): Petrochem Services, Inc.

Type of Personnel:
1-Technician Supervisor, 1-Field Supervisor, 6-Laborers

Equipment Utilized:
Truck #270, Van #6, Pickup #9, Buick, Vehicle #7, Decon trailer, Van #377, air compressor, mixer, scaffolding, pump, Bobcat, Double Dia pump, 2" hoses, 6sec-vac., airhose, respiratory systems (7), Generator and lights, draeger.

Scope of Work Completed:
Contractor cleaned and removed four vats from facility and placed them in dumpster. Two vats were unable to be cleaned thouroughtly due to high Cn contamination in metal. TAT went Level "B" during acid tests due to Cn levels. Two vats were given to local plating firm.

Comments:

Future Plans:
Clean and test remaining vats and decontaminate building.

DAILY SUMMARY CERCLA CLEANUP

Date:	Time Commenced Work:	Time Completed Work:
12-8-82	0730	1600

Facility:
Danville Plating Co.

Contractor(s):
Petrochem Services, Inc.

Type of Personnel:
1-Field Supervisor, 1-Technician Supervisor, 6 Laborers

Equipment Utilized:
Truck #270, Van #6, pickup #9, Vehicle #7, Decon trailer, van #377, air compressor, mixer, scaffolding, pump, Bobcat, Double dia pump, hoses, air hose, respiratory systems, generator & lights, Draeger.

Scope of Work Completed:
Contractors spent the majority of the day attempting to remove the largest vat from the building, The vat was 2/3 full of solid waste. Violent caustic/chlorine reaction was produced in neutralization of waste in one of the drums. Lime was used to produce a less violent reaction. Cn draeger showed positive reaction. Largest vat was eventually cleaned and removed from building, Lime was spread on floor of building

Comments:

Future Plans:
clean and neutralize floor and building. Acid test floor.

DAILY SUMMARY CERCLA CLEANUP

Date:	Time Commenced Work:	Time Completed Work:
12-9-82	0730	1600

Facility:
Danville Plating Co.

Contractor(s):
Petrochem Services, Inc.

Type of Personnel:
1-field Supervisor, 1-Technician, 6-Laborers

Equipment Utilized:
Truck #270, Van #6, pick up truck #9, Vehicle #7, Decon trailer, Van #377, air compressor, mixer, scaffolding, pump, Bobcat, double dia pump hoses, air hose, respiratory systems, generators and lights, Draeger.

Scope of Work Completed:
Contractors completed cleanup of building floor using lime, chlorine, and water rinse. Acid tests performed on floor indicated no more than 8ppm Cn in several areas, these were reduced woth continued bleaching. Contractors decontaminated equipment, soils south of the east section were overturned ans bleached.

Comments:

Future Plans:
Take soil samples from area overturned and bleached.

DAILY SUMMARY CERCLA CLEANUP

Date: 12-10-82	Time Commenced Work: 0730	Time Completed Work: 1600

Facility: Danville Plating Co.

Contractor(s): Petrochem

Type of Personnel:
1-Field Supervisor, 6-Laborers

Equipment Utilized:
Truck #270, Van #6, pickup #9 , Vehicle #7, Decon trailer, Van #377, air compressor, mixer, scaffolding, pump, Bobcat, pump. hoses, air hose, respiratory systems, generator, draeger.

Scope of Work Completed:
Complete decontamination of equipment and remove from site.

Comments:

Future Plans:
remove remaining drums for disposal.

DAILY SUMMARY CERCLA CLEANUP

Date:	Time Commenced Work:	Time Completed Work:
12-13-82	0500	1530

Facility:
Danville Plating Co.

Contractor(s):
Petrochem Services, Inc.

Type of Personnel:
3- Laborers

Equipment Utilized:
Pick up #9, Bobcat, Van #377.

Scope of Work Completed:
Drums were loaded onto CECOS truck and removed from site.

Comments:
Building was demolished and removed. This was not at EPA expense.

Future Plans:

EQUIPMENT AND EXPENDABLE MATERIALS ENTRY LOG		Work Site: Danville Plating Site/Spill No.:	
Date	Time	Equipment or Materials Entering Site	Quantity
12-1-82		EQUIPMENT ON SITE:	
		Vac Truck #270	
		#6 Van	
		Pickup Truck #9	
		Grand Prix	
		Vehicle #7	
		Decon trailer	
		Van #377	
		Air Compressor (rental)	
		Bobcat	
		Pump	
		Scaffolding	
		2"- Double Dia Pump	
		6 Sec Hose	
		6 Sec Hose	
		Respiratory System	
		Generator & Lights	

EQUIPMENT AND EXPENDABLE MATERIALS ENTRY LOG

Work Site: Danville Plating
Site/Spill No.:

Date	Time	Equipment or Materials Entering Site	Quantity
12-2-82		Petrochem did not bring any other	
		equipment on site (as of 12-1-82)	
		Envirite Lab had a Vac truck on site	
		(subcontractor)	
		Duckett Disposal, Inc. had a dumpster on site.	
		(subcontractor)	

EQUIPMENT AND EXPENDABLE MATERIALS ENTRY LOG

Work Site: Danville Plating
Site/Spill No.:

Date	Time	Equipment or Materials Entering Site	Quantity
12-3-82		Petrochem did not bring any additional equipment	
		on site as of 12-1-82.	

EQUIPMENT AND EXPENDABLE MATERIALS ENTRY LOG

Work Site: Danville Plating
Site/Spill No.:

Date	Time	Equipment or Materials Entering Site	Quantity
12-6-82		NONE	

EQUIPMENT AND EXPENDABLE MATERIALS ENTRY LOG

Work Site: Danville Plating
Site/Spill No.:

Date	Time	Equipment or Materials Entering Site	Quantity
12-7-82		NONE	

EQUIPMENT AND EXPENDABLE MATERIALS ENTRY LOG

Work Site: Danville Plating
Site/Spill No.:

Date	Time	Equipment or Materials Entering Site	Quantity
12-8-82		Pallet of lime	
		1) 16 Lbs. of crystal chlorine	

EQUIPMENT AND EXPENDABLE MATERIALS ENTRY LOG

Work Site: Danville Plating

Site/Spill No.:

Date	Time	Equipment or Materials Entering Site	Quantity
12-9-82		Returned chlorine	
		Returned 32 bags of lime	

EQUIPMENT AND EXPENDABLE MATERIALS ENTRY LOG

Work Site: Danville Plating
Site/Spill No.:

Date	Time	Equipment or Materials Entering Site	Quantity
12-10	8:25A	Vacuum truck leaves site	
12-10	8:45A		

EQUIPMENT AND EXPENDABLE MATERIALS ENTRY LOG

Work Site: Danville Plating
Site/Spill No.:

Date	Time	Equipment or Materials Entering Site	Quantity
12-13	11:30	Drums were removed from site	

APPENDIX B

State Report

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY MEMORANDUM

DATE: November 19, 1982

TO: Land Division File

FROM: Gerald E. Steele, DLPC/FOS-Central Region GES

SUBJECT: LPC #18302013 - VERMILION CO. - DANVILLE/DANVILLE PLATING

An investigation of the old Danville Plating Company facility in Danville, Illinois, was conducted on November 19, 1982, by this author in the company of Jim Kelty of the Emergency Response Unit. The investigation was requested by Vermilion County ESDA Coordinator John Schaffer. The situation involved plating chemicals in open vats and drums inside and around the deteriorating building of the closed facility. The property had recently been purchased by Danville School District #118. A meeting was held at the ESDA office upon our arrival. Those present included Ray Scarce, Gerald Colwell, and Arlyn Ranginberger from District 118, Assistant Chief Jack Hardesty of the Danville Fire Department, Sgt. Jerry Cranmore of the Danville Police Department and Paul Shabbe of the Danville Health Department. Mr. Bill Simes, an on-scene coordinator for the U.S.E.P.A. was also present.

According to Mr. Schaffer, the plating operation closed several years ago. The facility was owned by Mr. Robert Vanetta. District #118 bought the property in July, 1982. In August, a citizen complaint was received by Mr. Schaffer and investigated by Mr. Shabbe and Schaffer. The site was heavily overgrown with vegetation and was becoming a random dump. Additionally, the plating chemicals had been left on-site. Numerous open vats and approximately 26 barrels were observed on the property (twenty outside, six inside). Mr. Vanetta was contacted. He stated he was still working on taking things out. He planned on selling the materials to a firm in Chicago. Some time later, the police chief investigated a complaint about materials being removed. It was found that Vanetta was removing some of his property from the building. Some of the barrels had been removed. The vats of plating chemicals and the drum of zinc cyanide were left behind. The building was described as in very poor repair with all of the windows broken and a large hole in the roof.

Mr. Scarce stated that during a July 16, 1982, meeting to finalize the purchase of the building, a verbal agreement was reached with Mr. Vanetta. He was to remove all of his personal

LPC #18302013 - Vermilion Co.
Danville/Danville Plating

property within a reasonable amount of time. When the school district was contacted concerning the chemicals a month later, they in turn contacted Mr. Vanetta. He stated that the only materials left were muratic acid and this was watered down enough to make it safe to drink. During the first week of October, school officials noted that students from the high school, which is located across the street, were using the property to hold beer parties. A work crew was sent to clear off the brush and clean up the property. They also replaced the cover on a shallow well. In cleaning up the property, they uncovered the drums stored outside. The school district called Mr. Vanetta to determine what was in them and when he was going to remove them. He stated he didn't know, and wasn't going to do anymore clean-up. Mr. Scarce said the School Board considered the vats and chemicals as Mr. Vanetta's personal property.

We next went to the site located at 307 East Fairchild (the NE corner of Fairchild and Washington). The building was a concrete block and wood structure. Several cracks ran the complete height of the walls. Upon entry, it was observed that these cracks ran completely through the walls. The west wall had shifted so that it was no longer a straight line. The building consisted of 7 rooms and a bath room. Only two of the rooms contained vats. A large hole was observed in the north central portion of the roof. Objects and pipes hanging from the ceiling made wearing a hard hat a necessity. Lighting was very poor. Tests performed prior to prolonged entry included oxygen level, combustible gases, organic vapors, and hydrogen cyanide (HCn) gas level.

The far west room ran the length of the building. This room contained both empty and filled vats, empty containers, and the nearly full fiber drum of Zinc Cyanide. Dust rings on pallets in the north part of the room indicated more drums had been stored there at one time. Vats at the south end of the room appeared to have been rusted or corroded through, and had leaked their contents on the floor. The concrete floor in this part of the building had been severely deteriorated. A field pH test on those vats containing liquid showed a pH of 10 or 11. Drager tube reading for HCn gas indicated concentrations of 5 ppm just above the liquid. Just east of this room was another room, which ran the entire length of the building. The bath room was located here. A large floor drain was located at either end of the room. A garage door was located at the north end, with a pedestrian entrance at the south end. Material in this room consisted of trash and wood.

LPC #18302013 - Vermilion County
Danville/Danville Plating

The northern portion of the remaining floor space was divided into three rooms. The western room appeared to have been an office. Just east of the office was what appeared to have been a lab. Access to the lab was made only through the office. Shelves in the lab contained several bottles labeled as metal containing solutions. These bottles were from the same manufacturer, and were numbered, as if they had come in a package of chemicals. Two small fiber drums were sitting on the floor. The shelves also contained several non-chemical bottles, which might contain chemicals (ie. a whiskey bottle containing a solid material). Except for trash, the east room was empty. The room contained a vent to the outside. The southern end of the remaining floor space was apparently a storage room, and contained trash.

The remaining room contained a majority of the vats and chemicals. Vat sizes ranged from approximately 4 feet square to over 20 feet long. Several open top 5 gallon plastic buckets, which contained some liquid were observed scattered around the room. Four drums were also observed at various parts of this room. Field pH tests indicated pH's ranging from 0 to 13. Some cases of strong acids setting next to strong bases were observed. A wooden elevated walkway, which ran along and in between the vats was in poor repair.

Approximately 20 drums were placed along the outer south-east wall. These were overgrown by brush and vines. They appeared to be in poor condition. On two of the drums, the tops had rusted through. Both contained a dark colored material. Field pH tests indicated that one had a pH of 7, and the other had a pH of 10.

After decontamination, we returned to the ESDA office. At the request of the police and fire departments, possible response activities were determined, in case of a fire or release would occur. Conversations were held with the school district and Mr. Vanetta's attorney about possible liability. Mr. Simes contacted U.S.E.P.A. and received tentative approval to utilize Federal funds should they be necessary. Different contractors were contacted and requested to make a site survey and cost estimate. This was being done to better evaluate who might be financing the clean-up. Further clean-up at the site would depend on that determination.

GES/cp

Attachments

cc: IEPA/DLPC/FOS, Central Region
Emergency Response Unit
B. Simes/USEPA-Region V

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY **MEMORANDUM**

DATE: November 29, 1982

TO: Land Division File

FROM: Gerald E. Steele, DLPC/FOS-Central Region geo

SUBJECT: LPC #18302013 - Vermilion County - Danville/Danville Plating

Clean-up operations at the closed Danville Plating facility began on November 29, 1982. This author was present as State on-scene coordinator. Petrochem Services of Lemont, Illinois, was the contractor hired by U.S.E.P.A. Mr. Bill Simes, Federal on-scene coordinator, filled me in on the activities since November 19, 1982, dealing with this site. District #118 had decided it was not their responsibility to clean up the site, and could not or would not fund the removal. Mr. Vanetta had volunteered to donate $1,000 to the project. No State funds were available. Final approval to expend Federal dollars for the project was sought and received on November 24, 1982. Mr. Bill Simes and a member of the Technical Assistance Team (TAT) returned to the site that weekend. This was to collect samples from each container and conduct a final survey prior to clean-up. Discovery of a broken flowing waterline indicated that the water had not been turned off as previously reported. Several puddles were observed at various parts of the building. Hydrogen cyanide gas was detected above these puddles using Drager tubes. A site sketch was prepared. Petrochem Services also sent a sampling team to the facility. Results from their tests were expected the afternoon of November 29, 1982.

The initial plan was to solidify the wastes and place them in reconditioned drums. A pneumatic pump was to transfer the liquid wastes from the vats into a cement mixer. Portland cement and vermiculite were blended in until the proper consistency was obtained. The solidified waste was then transferred to the drums. Originally, the cement mixer was to be on the ground, and the solid shoveled in. To increase efficiency of the operation, the mixer was elevated and a chute was fabricated from a sheet of plywood and linked to the mixer.

Dye tests had been done and the determination was made that all drains were connected to the sanitary sewer. This common line was found and sealed by a plug.

The initial plan was to decontaminate the vats and other materials by pressure washing on-site. The building interior was to also be washed down using a chlorine solution. The main problem was containment of the wash-water. Another concern was

IL 532-0570
APC 50 (Rev. 6/75-20M)

LPC #18302013 - Vermilion County
Danville/Danville Plating

containment of wastes should a spill occur. A system was devised, in which an empty metal vat was placed into the hole below the plugged sewer. The hose from a vacuum truck was then placed into the vat, and the plug removed. Constant vacuum was maintained at the hose. All wash-water flowed naturally to the existing drains. Similarly, any spilled wastes would travel naturally to the drains. The liquid was immediately collected into the truck, because of the maintained vacuum in the hose. This would also provide a safer containment vessel for spilled material.

Mr. Gary Kirk, a former employee and current neighbor to the facility, identified some of the solutions, as well as those vats which might contain cyanide. He also stated that a local business, Neumiester Plating of Tilton, might be interested in some of the solutions and vats. Mr. Simes was to contact Mr. Neumiester after receiving the lab results. This was done to insure that the materials were what they were thought to be, so as not to create a future disposal problem.

The lab results were phoned in during the noon hour. A summary of these results as received is attached. Due to listing in RCRA and 700 Series State Regulations, the wastes were determined to be hazardous. The solution and sludges were listed under Hazardous Wastes from Non-Specific Sources with ID numbers of F007, F008, and F009. Many of the wastes also failed the criteria for hazardous wastes (toxicity, reactivity, and corrosivity). Composite samples from all acids and all bases also failed the criteria. Floor sweepings and wood which was in contact with the floor, were to be treated as hazardous wastes. It was felt that the wood on the elevated walkway was not contaminated to the extent to make it hazardous, but was sufficiently contaminated to be classified as a special waste. The solidified waste was to be disposed of at a secure landfill in Ohio operated by CECOS. The estimated cost for solidification and disposal was just over six dollars ($6) per gallon. Hauling was an additional expense. The option of treating some of the waste was suggested. Chem-Clear of Chicago was contacted by Petrochem. Chem-Clear stated they would not be able to handle the reactive solutions, but might be able to handle the acids. The limiting factors would be hexavalent chrome content, and nitric acid. If they could treat the material, an estimated cost would be under $.25 per gallon. Additional tests were to be performed by Petrochem's lab to verify treatment suitability. Mr. Bill Simes determined that,

should treatment be a viable alternative, the solutions would not be taken to Mr. Neumiester. Mr. Simes spoke to Mr. Vanetta's new attorney, Mr. Larry Lessen, and the sale of vats and solutions was discussed.

Homes directly north and east of the facility were evacuated for approximately two hours during the initial solidification process. This was done as a precaution because there could have been a toxic reaction when the cyanide bearing solutions were solidified. With the exception of one gentleman who arrived during the evacuation period, the residents were very cooperative. This author monitored HCn gas levels at the site boundary downwind (a southwest wind was present) from the solidification process. No HCn was detected. Petrochem technicians could solidify a barrel of waste in approximately ten (10) minutes. By the end of the day, all liquids in the west room had been solidified. The drum of zinc cyanide had been overpacked and surrounded with vermiculite. A member of the Danville Auxillary Police arrived at the site to provide overnight security.

Problems which hindered the operation included:

a. The rental air compressor would not start. A replacement was delivered to the site by the rental company.

b. The electrical lines going to the building were still energized, instead of being disconnected as initially reported. The power company came out and cut the wires. They also removed the meter and the wire between the pad and the building.

c. The workman who was mixing the waste/concrete/vermiculite had a severe fogging problem with his respirator. This caused a consistency problem as well as a safety hazard. A TAT member loaned him a nosecup attachment for the respirator, which considerably lessened the problem.

Communication at the site was provided by Vermilion County ESDA. A vehicle was kept at the site at all times while work was in progress. The operator had direct radio contact with the fire and police departments, as well as the ESDA Emergency Operations Center.

GES/cp

Attachment

cc: DLPC/FOS, Central Region
Emergency Response Unit
LB. Simes/USEPA-Region V

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY

IL 532-0357
ADM 39

Subject 1830203 Lpc # Vermilion Co.
Data Danville / Danville Plating Petrochem Sample Analysis
Reviewed by G.E. Stark Date 11-30-82

Acid Vat #	pH
3	Ø
14	2,56
15	.3
21	4,96
26	,178
29	.3
31	3.5
32	.6
33	Ø

Composite sample
pH .43

Arsenic = .85 ppm
Barium = 7,43 ppm
Cadmium = 264,67 ppm *
Chrome = 18,390 ppm *
Copper = 685 ppm
Nickel = 40,593 ppm
Mercury = .067 ppm
Lead = 142,95 ppm *
Zinc = 664 ppm
Selenium = .046 ppm
Silver = 2,69

Base vat #	pH
4	11,18
5	12,69
12	10,58
16	12,38
17	11,62
18	11,85
22	13,11
23	9,96
24	9,86
25	9,55
27	9,86
7	10,06
19	8,45
13	7,37
20	7,45

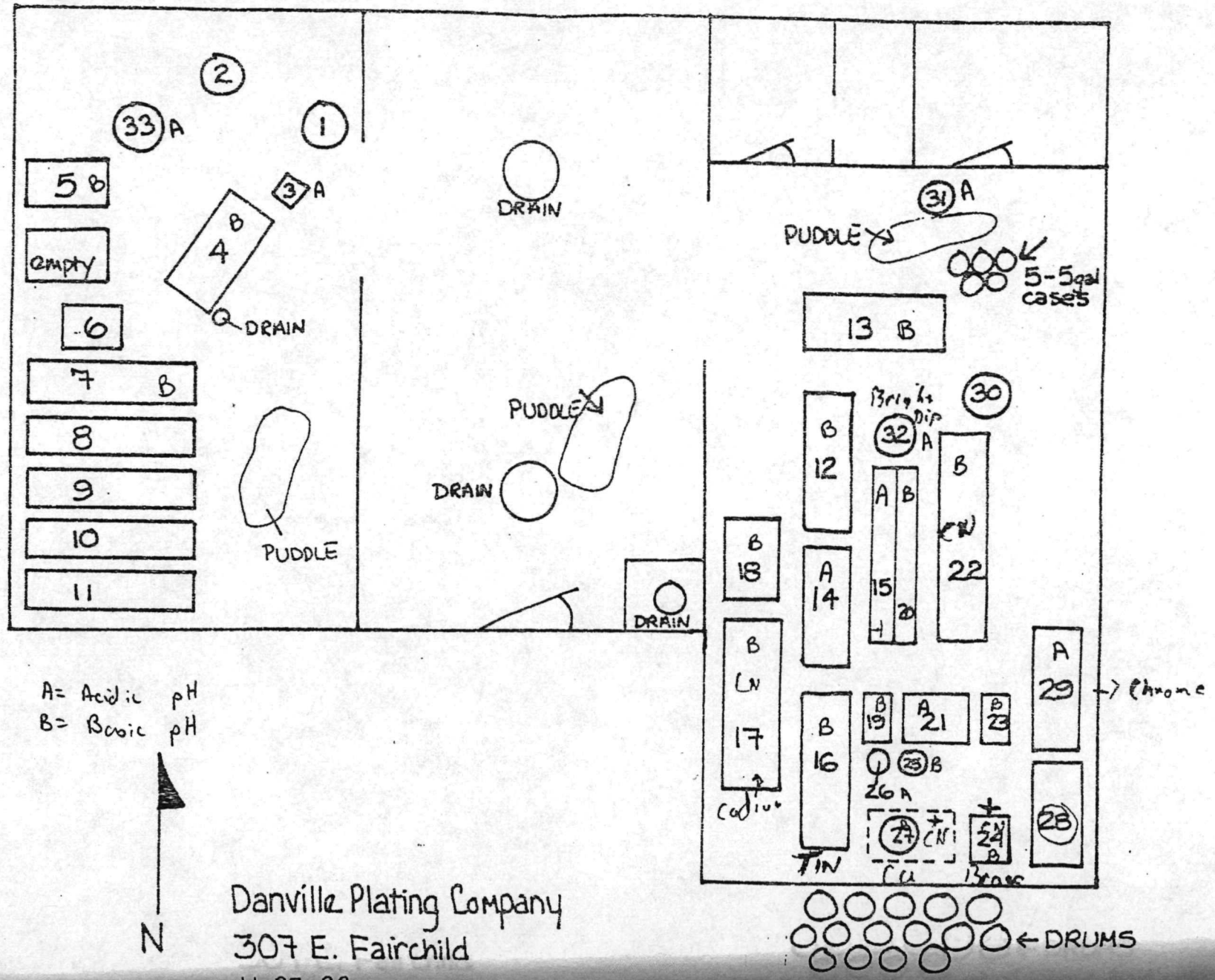
Composit sample

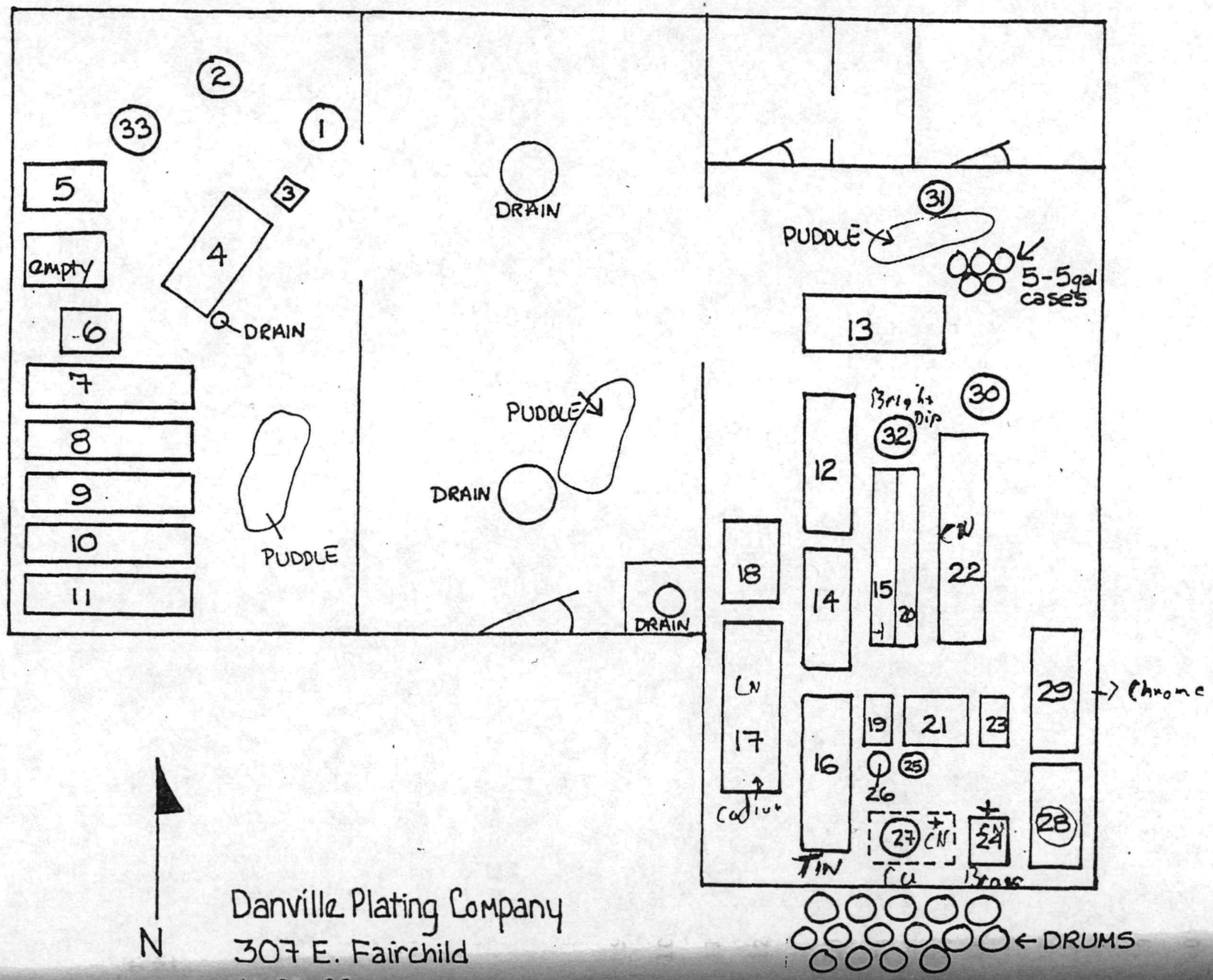
pH 12,57

C_N = 3,35%
Arsenic = .029 ppm
Barium = 5,0 ppm
Cadmium = 2220 ppm *
Chrome = 90,45 ppm *
Copper = 6658 ppm
Nickel = 283,7 ppm
Mercury = <.01 ppm
Lead = 11,1 ppm *
Zinc = 12,360 ppm
Selenium = .026 ppm
Silver = 1,65 ppm

Drum #	pH (lab)
1	9,6
2	11,05
3	9,31
4	9,28
5	11,15
6	12,68
7	13,24
8	12,45
9	13,32
10	13,17
11	13,25
12	13,23
13	13,02
14	12,7
15	11,0
16	12,44
17	11,04
18	13,23
19	12,19
20	10,39
21	8,55

samples 8, 9, 10, 11 } solids


2
33 A
1
3 A
5 B
4 B
empty
DRAIN
6
7 B
8
9
10
11
PUDDLE
DRAIN
PUDDLE
DRAIN
31 A
PUDDLE
5-5gal cases
13 B
30
Brighten Dip
32 A
B 12
A B 15 20
B 22
B 18
A 14
B LN 17
Cadium
B 16
TIN
B 19
A 21
B 23
26 A
23 B
27 A CN
Cu
24 B
Brass
A 29
Chrome
28
DRUMS
A= Acidic pH
B= Basic pH
N
Danville Plating Company
307 E. Fairchild
11-23-82
Samedi



Danville Plating Company
307 E. Fairchild
11-23-82
Samant

DANVILLE PLATING COMPANY

DANVILLE, ILLINOIS

Tank Number	Description	pH (pH Meter)	Cyanide (hydrocyanic acid draeger tubes)
1	Barrel labelled zinc cyanide		
2	Closed can		
3	Open plastic jug	0	
4	Open vat	9	
5	Open vat	5	
6	Open vat	4	
7	Open vat	7.5	
8	Open vat (no liquid)	-	
9	Open vat (no liquid)	-	
10	Open vat (no liquid)	-	
11	Open vat (no liquid)	-	
12	Open vat (full)	7,10 after stirring	
13	Open vat	0	
14	Open vat (full)	7	
15	Open vat	1	
16	Open vat (full)	7.5, 11 after stirring	Tin solution
17	Open vat	8	
18	Open vat	6.5	
19	Open vat	2.5	
20	Open vat	0	
21	Open vat	0	

DANVILLE PLATING COMPANY

DANVILLE, ILLINOIS

(CONT.)

Tank Number	Description	pH (pH Meter)	Cyanide (hydrocyanic acid draeger tubes)
22	Open Vat	0	
23	Open vat	1	
24	Open vat	4	
25	Open bucket	3	
26	Open plastic pail 4" liquid	0	
27	Open drum	4	
28	Open vat containing grease	-	
29	Open vat	7	
30	Open drum	5.5	
31	Small open drum	3.5	
32	Open drum	0	
33	Open vat	0.5	
5-5 gallon cases	Marked nickel brightener (6% by weight dioxane)		
Drain near #4		-	2 ppm
Puddle near #8		6.5	5 ppm
Puddle near #31		9.5	
Puddle near door		7.5	
Outdoor drum		1	ND

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY MEMORANDUM

DATE: November 30, 1982

TO: Land Division File

FROM: Gerald E. Steele, DLPC/FOS-Central Region GES

SUBJECT: LPC #18302013 - VERMILION COUNTY - DANVILLE/DANVILLE PLATING

The continuing clean-up operations at the Danville Plating facility conducted on November 30, 1982, were observed by this author acting as State on-scene coordinator. Mr. Bill Simes, USEPA on-scene coordinator, was also present on this date. Mr. Simes was supported by two TAT members from E & E.

The solidification set up was further refined by addition of a more stable base for the cement mixer. A scaffolding replaced the pickup truck used as the employee platform. Outdoor lights were installed. Results from Petrochem's lab revealed that the acid wastes could not go to Chem-Clear as hoped. The Nitric Acid content prevented this. The Envirite treatment plant in Harvey, Illinois, was contacted. They stated that it might be possible to take even the basic cyanide containing wastes. A test would have to be run at Envirite's lab to determine treatment suitability, which is their normal requirement. They reluctantly agreed to accept the acids based on Petrochem's analysis, and would send a tanker truck down the following day. A composite sample of the remaining basic wastes was to be constructed by Petrochem, and flown from Kentucky to Harvey that night. Due to the possible enormous cost savings, Mr. Simes instructed the contractor to concentrate on clean-up work instead of solidification until there was a determination made by Envirite. It was felt that no time would be lost due to this course of action.

Major activities at the site involved removing sludge from the empty vats, and decontaminating them. Wood was also decontaminated. These materials were removed to the southwest part of the property. Floor sweepings were collected and drummed. Hydrogen cyanide levels were monitored both inside and outside of the building by this author. None was detected outside at the downwind property line (a southwest wind was present). Hydrogen cyanide levels inside the building did not exceed 1 ppm. Filled drums were placed on a concrete pad south of the building. The vats were observed to have several layers of scale on them. There was concern that these vats could not be complete decontaminated. It was determined to run an E.P. Toxicity test on a composite sample of this scale. If the levels showed the scale to be toxic, they would have to be disposed of with the empty drums.

LPC #18302013 - Vermilion County
Danville/Danville Plating

Mr. Bob Vanetta, past operator of Danville Plating, came out to the site in the afternoon. I asked him if he knew what was stored in the barrels. He stated they were plating solutions. He said they came from a plating firm that went out of business about 20 years ago. His partner at the time agreed to haul the material away if he could have it. Mr. Vanetta said the drums had basically been forgotten, and had been setting there for 20 years.

Mr. Bill Simes expected the clean-up to last the rest of the week. The Emergency Response Unit would be assuming the role of on-scene coordinator for the State for the remainder of the clean-up.

GES/cp

cc: DLPC/FOS, Central Region
Emergency Response Unit
B. Simes/USEPA-Region V

APPENDIX C

County ESDA Report

EMERGENCY SERVICES AND DISASTER AGENCY
DANVILLE/VERMILION COUNTY

2 EAST SOUTH STREET · PUBLIC SAFETY BUILDING · DANVILLE, ILLINOIS 61832
TELEPHONE (217) 443-6010

17 December 1982

11.02-39

SUBJECT: After Action Report

ESDA MSN NR 82-11-1
HAZMAT 19 Nov.'82

TO: Chairman
Public Safety Committee
Vermilion County Board

On 9 August 1982 this Agency received a telephone inquiry from Mr. Perry Fillhouer. Mr. Fillhouer advised that his mother resides at 309 E. Fairchild. That the property directly west of hers had been recently purchased by School District 118. This property was the former site of Danville Platers, Inc. Mr. Fillhouer stated there was a considerable amount of hazardous materials used by the plating company still on the site. His mother was concerned about the proper removal of the hazardous materials.

I visited the site on 10 August and found the area overgrown with weeds and brush. The building was in a bad state of repair, the roof was off in places, the west wall was cracked and buckled, and many windows were broken out. There was a well pit on the west side with a very unsafe cover. There were approximately 20 barrels in a rusted state with unknown contents standing on the south side of the property. There were various types of household junk (i.e. old mattress, pads, refrigerator, etc.) and many plastic trash bags with household waste dumped on the southwest quadrant of the property.

I attempted to obtain the status of the property ownership. Calls to School District 118 were incomplete as Mr. Scarce, the official responsible for Building and Grounds, was not available. I did find that the property was being sold by a Mr. Bob Vanetta, who I was unable to contact.

On 12 August I did contact Mr. Scarce and he said the School District was in the process of purchasing the site from Mr. Vanetta. Mr. Scarce agreed to set up a meeting with the Superintendent, the District Attorney and Mr. Vanetta's attorney. He too was unable to contact Mr. Vanetta.

On 13 August I re-inspected the site with Mr. P. Krabbe, Danville Health Inspector. I requested Mr. Krabbe to accompany me to the School District meeting scheduled for the morning of 16 August.

At 10:30 on 16 August at the office of School District 118, the following were assembled to discuss the above situation. Dr. Roth, Superintendent; Mr. Scarce; Mr. Wendell Wright, attorney for Distri 118; Mr. R. Acton, attorney for Mr. Vanetta; Mr. Krabbe and Mr. J. Parish of the Danville Health Department and myself. Mr. Vanetta joined us about twenty minutes after the discussion started.

I explained how I had been contacted, what I had observed and recom mended that an assessment of the materials be made. That if indeed it was established that hazardous materials were on the property, these materials should be properly removed to insure public health and safety.

Mr. Scarce concurred and indicated that the School District would not accept the property until such time as Mr. Vanetta had removed all of his personal property. (Note: The tone of all discussions at this meeting reflected that the purchase of the property was not completed).

Mr. Vanetta admitted there were materials on the property used in the plating business and although this material was classified as hazardous, he did not feel there was any danger. He stated they ha dealt with the material all the time and for several years since th shop was closed no incident had occurred. He stated he would remov all hazardous materials before surrendering the keys to the School District. I inquired who would remove the material and he said the was a Chicago firm that would buy the material. I informed him the persons removing and decontaminating the area would require proper permits and certification by Illinois EPA. He stated he was sure they had such permits. The name of the firm he had in mind was chec with EPA and they were not listed. I could never contact Mr. Vanett directly, but I did leave word with his office to this effect.

On 16 November Mr. Scarce called ESDA and said Mr. Vanetta had given the School District the keys to the property. That the materials had not been removed and that when he contacted Mr. Vanetta he said he wasn't going to do anything more. Mr. Scarce then officially re- quested ESDA to advise the School District per PA 79-1442 (Illinois Hazardous Materials Act). I informed Mr. Scarce I would get the EPA to come in and make a survey to determine if indeed there were hazar ous materials present and what action would be required. I arranged for the EPA to come to Danville on 19 November.

At 1100 hours 19 November Mr. J. Kelty and Gary Steele of Illinois E and Mr. W. Simes of U.S. EPA met at the ESDA office with Mr. Scarce, Mr. C. Ranzenberger and Mr. G. Colwell of District 118, Assistant Fi Chief Hardesty DFD, Sgt. J. Cranmore DPD, Mr. P. Krabbe of the Danvi Health Department. The situation was reviewed to acquaint all those present with the problem.

At 11:45 we all proceeeded to the site and the Federal and State EPA officials conducted a survey which they completed at 1400 hours. They found 17 vats with various materials and other hazardous materials in the building. It was determined that a public safety and health hazard did exist. That the site would have to be cleaned up by a professional contractor specializing in this work.

Arrangements were made by the Illinois EPA to have 3 contractors inspect the site to get some idea of the cost. On Saturday 20 November representatives of O.H. Materials, Petro-Chem Inc. and Environmental Emergency Services Company visited the site and provided EPA with the requested information.

On Monday 22 November the School District informed the EPA they would not be responsible for any cost and would not discuss the problem further.

At 1625,22 November Illinois EPA (Renkus) advised that when contacted today Mr. Vanetta was advised the cost of clean up would be at least $50,000 to $75,000. Mr. Vanetta stated this was too high and that he would get his own contractor. Mr. Vanetta was further advised he had to take positive action by Friday 26 November. That any contractor and/or persons invloved in the clean up would require EPA approval and the work would be monitored by EPA. Mr. Renkus of Illinois EPA also informed Danville/Vermilion County ESDA that Mr. Simes of the U.S. EPA would be at the Danville EOC at 11:00 on 23 November with the U.S. EPA "Tac Team" to make an in-depth survey and take samples for laboratory analysis.

At 11:45, 23 November, the U.S. EPA "Tac Team" with Mr. Simes and Suzanne Ahrendt arrived to perform additional testing of the site. The team departed at 1545.

0920, 26 November 1982, Bill Simes, U.S. EPA arrived. Advised that U.S. EPA will start clean up with Petro Chem as contractor. Called in Bob Morris, Danville Sewer Dept. Supervisor, to coordinate sealing sewers at the site. Made arrangements with U.S. EPA and Petro Chem on-site manager (Marion Case) to provide:

Security - by employment of Danville Auxilliary Police - paid by Petro Chem.

Electrical power to be provided by an ESDA generator to the Control and decontamination van as required - operation cost to be paid by Petro Chem.

Arranged with Golden Oil Company to provide on-site fuel supply as required - to be paid by Petro Chem.

Arranged for open accounts with two local equipment rental firms and a lumber company.

Arranged for telephone service at the site - paid by Petro Chem.

Provided an ESDA emergency response vehicle with radio contact to the police and fire dispatcher during hours of operation at the site.

Provided a single public information source for the media throu the ESDA Public Information Officer.

Clean up operations started at 0700 hours Monday 29 November 1982. Work was slow and more costly due to the poor condition of the bui ing at the site.

Tests revealed the building structure would have to be decontamina The most economical solution was to demolish the building and send the material to a hazardous waste dump. The EPA contract did not p vide funds for demolition. A meeting at 0800 3 December 1982 at D trict 118 headquarters with School District officials, Mr. Vanetta and attorney, U.S. EPA and Petro Chem to discuss the demolition co resulted in an impass. Consequently the building was decontaminat by Petro Chem. The clean up operations were completed on Thursday 9 December 1982. Final loading of hazardous materials and removal Petro Chem equipment was completed on Saturday 11 December 1982.

2,600 gallons of liquid caustics and 931 gallons of liquid acids, plus 100 - 55 gallon drums of solids and sludge were removed from the site.

Cooperation among all agencies was excellent. A review of operati plans and procedures revealed no deficiencies.

JOHN L. SHAFFER, DIRECTOR

JLS/f

Firm hired to remove chemicals

Removal of chemicals stored in the former Danville Plating Co. building at Fairchild and Washington has been routine so far, an official said Monday.

The cleanup, which began Monday, is not expected to pose any hazards, John Shaffer, director of the Vermilion County Emergency Services Disaster Agency, said Monday on the site.

"At this point, it's a routine thing," he said. "There is no acute hazard to the public or to health."

ESDA is coordinating cleanup efforts, which began after Danville School District 118 purchased the building recently. School officials called ESDA for help in removing barrels of chemicals from the building and ESDA contacted the Environmental Protection Agency.

Petrochem, a Chicago-based hazardous materials cleaning firm, is doing the work, monitored by an EPA representative.

About 10 Petrochem workers wearing disposable protective suits and headgear were working inside the structure Monday with a large trailer containing equipment and a decontamination unit nearby.

Shaffer said 23 containers were found inside the concrete building, but it has not been determined how hazardous the chemicals in them are. "Almost all the vats are full — some filled with water and some with chemicals," he said, adding that some of the chemicals have been diluted with water that had leaked through the roof. The containers have been stored on the site since the company closed in summer 1981.

Shaffer said workers so far considered the job to be routine. "They don't think they'll run into anything hot and then have to run it to their lab," he said. "They said they found what they expected to find (at a chrome plating outfit)."

Residents in nearby homes have been assured that the workers won't do anything that will endanger them, Shaffer said, adding that residents will be evacuated if there is any possible danger.

The chemicals are zinc cyanide and muriatic acid — commonly used in the plating process, according to Shaffer.

After the EPA tested and verified the chemicals it put the removal operation out for bid, Shaffer said. EPA will pick up the cleanup costs, he said. The cost was not immediately available.

After the chemicals are packaged and analyzed, hazardous waste dumps will bid on accepting them, Shaffer said. No such dumps are located near Danville.

The plan is to pump out any hazardous materials if possible, neutralize them, put them in truck and haul them to an approved hazardous-waste dump. Shaffer estimated the cleanup could take two days to three weeks, depending on what the workers find.

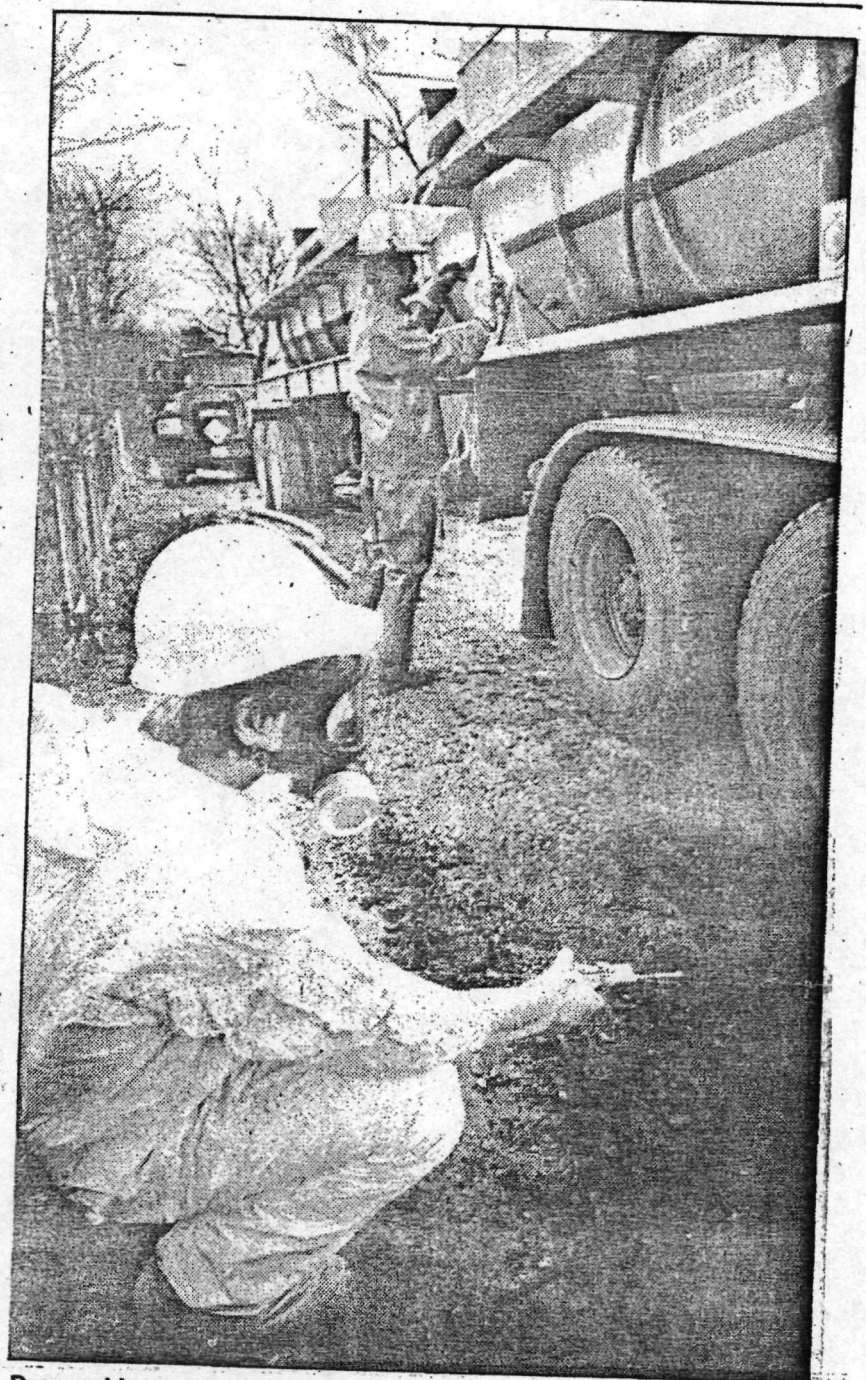
* * *

OOOOOOO Scanner

Police and Fire News

11.02-39
ESDA NIN
82-11-1

The Commercial-News, Danville, Ill. Thursday, December 2, 1982



Dressed in protective garb, Jeff Stofferahn checks for leaks in a tanker-truck being loaded with toxic waste. (C-N photo by Chuck Cannady)

SEE BACK

Chemical cleanup going smoothly

Chemical cleanup efforts at the former Danville Plating Co. at Fairchild and Washington are progressing smoothly, officials say.

The cleanup, which began Monday, is expected to be completed Friday or Saturday, a spokesman for the Region 5 Environmental Protection Agency in Chicago said this morning. The EPA is monitoring the cleanup and the Vermilion County Emergency Services and Disaster Agency is coordinating the effort.

The cleanup so far has not posed any health hazards and is not expected to as work progresses, according to officials.

Workers from Petrochem, the Chicago-based chemical-cleaning firm hired to perform the job, have decontaminated one of three rooms in the building and are working on a second room, according to an EPA progress report dated Wednesday.

The EPA conducted an inspection of the site Nov. 19. It revealed the site to be in poor condition, with 21 drums found outside building and 17 open vats inside, the spokesman said. Inspectors were basically concerned with the opened vats, which contained varying amounts of liquid waste. Contents that had spilled out of two rotted vats had eaten away the concrete floor, the spokesman said.

On Monday, four families living in nearby homes were evacuated for four hours while workers removed caustic cyanide from one of the rooms. During that time, the state monitored the air for cyanide fumes but the readings proved negative. Petrochem workers completed solidifying the cyanide for proper disposal Monday.

On Wednesday, workers completed cleanup of the west room. The chemicals in the room were placed in drums and are awaiting removal to an approved hazardous-waste dump. The liquid waste is tentatively set for removal to a site in Illinois and the solid waste to facilities in Cincinnati, the spokesman said. Workers decontaminated the room by spraying it with a neutralizing bleach.

Small bottles of chemicals, which had labels specifying the manufacturer, found in a second room were removed and contained Wednesday and are awaiting removal. Officials are calling the chemical companies to determine what chemicals were in the bottles.

Workers alo removed 1,000 gallons of acid from one of the rooms Wednesday. Wooden platforms on which the vats rested were in the process of being removed Wednesday.

The cost of the cleanup is expected to be under $50,000. Much of the final figure depends on the transportation costs of the chemicals to approved hazardous-waste dumps, the spokesman said, adding that each chemical found on the site must to be taken to an approved dump site for that specific chemical. EPA will pick up the cost.

An ESDA official is always on the site while work is being performed. "Nothing out of the ordinary has been found," ESDA director John Shaffer said this morning. "Everything is going smoothly."

* * *

OO●OOOO Scanner

Police and Fire News

Tests delay chemical cleanup

About 100 55-gallon drums of chemical solids and sludge remain to be hauled away from the former Danville Plating Co. as cleanup efforts near completion, officials said today.

About 2,600 gallons of liquid caustics and 931 gallons of liquid acids found on the site at Fairchild and Washington were safely contained and taken to treatment facilities in Harvey, Ill., last week, according to a spokesman from the Region 5 Environmental Protection Agency in Chicago. These chemicals represented 98 percent of the chemicals found that posed some sort of hazard, the spokesman said.

Workers were unable to complete the cleanup job on Saturday as expected because of delays in receiving chemical test results and approval to transport the drums to a hazardous-waste landfill in Cincinnati. Workers hope to remove the remaining chemicals Wednesday or Thursday. Officials expect to finish the cleanup Thursday.

The cleanup project, which began Nov. 30., is being paid for and monitored by the EPA, coordinated by the Vermilion County Emergency Services Disaster Agency and handled by workers from Petrochem, a hazardous waste cleanup firm from Chicago.

* * *

APPENDIX D

Contractors Report

Petrochem Services, Inc. P.O. Box 337 Lemont, Illinois 60439 (312) 257-5875

FINAL REPORT: *Contract No. 68-95-0052*
Assignment No. 3 TFA 725E99
Covering the sampling, analysis, removal and disposal of plating waste containing cyanide from the Danville Plating Company at 307 E. Fairchild in Danville, Illinois

SUBMITTED TO: *Mr. William W. Simes O.S.C.*
Contract Officer, Region V
U.S. Environmental Protection Agency
536 South Clark Street
Chicago, Illinois 60605

DATE: *January 7, 1983*

SUBMITTED BY: *Marion D. Case*
Manager, Technical Services
Petrochem Services, Inc.
PO Box 337
Lemont, Illinois 60439

On Friday, November 26, 1982, three people from Petrochem Services, Inc. (PSI) and two chemists from Environmental Consultants, Inc. (ECI) a subcontractor for PSI met with the OSC on site at the Danville Plating Company in Danville, Illinois. The purpose of this meeting was to further inspect and evaluate the work to be done and then to sample the various containers of solutions and solids.

The site consisted of a building located on the Northeast section of a corner lot across the street, to the North, from Danville High School. There was one home approximately five feet to the East of the site building and other homes across the alley to the North. The site building consisted of three main rooms totaling approximately 3500 square feet (see Exhibit #1). For the purpose of identification, the three main rooms were named as follows: the West Room, the Middle Room and the East Room.

Both the East and West rooms contained a total of 33 open vats and other containers of various sizes. Some of the open vats in the East room were overflowing due to leaks in the roof. There were 21 55-gallon drums in various stages of deterioration located outside the building to the South of the East room.

The building had been secured by nailing plywood over the windows and doors. Upon the first opening of the building, we found a waterline in one of the washrooms had ruptured and was leaking into the Middle room and down the floor drain. The water department was contacted and the water shut off at the main. With the aid of the sewer department, we then located the direction of the sewer drains and confirmed this direction with a dye solution.

A representative sample of each liquid container was taken using a glass tube. For the containers of dry or solid material, the sample was dug out with a small spade. The estimated volume of each vat container was calculated from a physical measurement of the container and the depth of the liquid. For the details of the analytical results and volumes of material, see ECI's report, Exhibit #2.

On Monday, November 29, 1982, Petrochem Services, Inc. returned to Danville with people and equipment for site clean-up. For details of the number of people and type of equipment, see the daily Contractor Cost Report, EPA Form 1900-55, Exhibit #3.

From the analysis supplied by ECI, we found the various vats of plating solution and the container inside the building to range from 0 ph on the acid side to 13.11 ph on the base side. All of the drums outside the building were on the base side with ph's as high as 13.25. Cyanide was present in some of the base solutions ranging as high as 11.25% in one vat.

With the presence of cyanide, we were concerned with the potential development of excess cyanide vapors and their effect on employees and the surrounding neighborhood. Another concern was of the potential mixing of acid and base solutions which could cause violent reactions.

The following safety plan was established and maintained throughout this clean-up action:

1. Employees would wear canister masks, rubber suits, boots and gloves, and full face shields and hard hats while inside the building and/or working with any of the solutions.

2. Cyanide vapor checks would be made on a regular basis during the various phases of the clean-up actions and continuous monitoring would take place during any pumping of liquid materials.

3. Compatibility checks would be made before any solutions were mixed together. This check was first performed in the laboratory by ECI chemists and then again in the field by PSI technical people before the actual mixing.

4. Supplied air systems were maintained at the ready in the event cyanide vapors went above 10ppm. (They were not needed.)

As a back-up to PSI safety procedures, the local Illinois Emergency Services and Disaster Agency (ESDA) offered and supplied continuous surveillance while work was conducted at the site. This surveillance consisted of a man and vehicle with direct radio communication to the Danville Fire and Police Departments.

During nonworking hours, PSI contracted with the Danville Auxiliary Police Association for a continuous on-site watchman. This watchman also had direct radio communication with the Danville Police.

To prevent escape of liquids to the municipal sewer system, we dug up the sewer line just outside the building, broke the line and connected a hose to the discharge and then used a vac-truck to pick up the future wash and decontaminated liquids.

Envirite of Harvey, Illinois agreed to receive both the composited acid and base liquid material for treatment. These materials were then bulked into two separate tank truck shipments to Envirite.

With all of the liquids gone, the neutralizations, solidifications, and drumming of sludge and other contaminated material was completed. The vats and other equipment were decontaminated and removed from the building and placed in disposal hoppers. The decontaminated vats and equipment and other noncontaminated material were disposed of by H&L Disposal in a local sanitary landfill. The building was then completely decontaminated.

The solid drummed material was disposed of at CECOS CER Co. in Williamsburg, Ohio, a secure hazardous waste landfill. The decontaminated waste liquid material was taken to Chem-Clear in Chicago, Illinois for treatment.

There were 37 small containers of various raw materials used in the plating business which were given to and picked up by Newmister Plating Company of Danville, Illinois and one drum (100lb) of Zinc Cyanide was delivered to Chicago Modern Plating in Chicago, Illinois for future use in their plating operation.

The following is a listing of material taken off site for treatment and disposal:

1. 931 gallons Waste Acid Liquid to Envirite on Illinois Manifest #0656902.

2. 2600 gallons Waste Cyanide Solutions to Envirite on Illinois Manifest #0656903.

3. 72 drums Waste Cyanide Mixture Dry to CECOS CER CO. on Illinois Manifest #0713159

4. 30 drums Waste Cyanide Mixture Dry to CECOS CER CO. on Illinois Manifest #0713168.

5. 2000 gallons Waste Cyanide Solutions to Chem-Clear on Illinois Manifest #0713158.

The decontamination process of the equipment and building consisted of the use of a low pressure washing gun and spraying various concentrations of 12% Sodium Hypochloride and water. Lime and Vermiculite were used for neutralization and solidification. Decontamination was determined by splashing an acid solution on various parts of the vats, equipment and the building and checking for cyanide fumes with a Draeger System. An o Reading was required.

The following is a brief summary and description of this clean-up work in sequence of events:

Monday, 11/29/82
- Set up equipment.
- Dug up and disconnected sewer line.
- Repaired broken water line.
- Drummed contaminated dirt and debris from both the Middle and West rooms.
- Neutralized and solidified liquid material from vats in West room and put in drums.

Tuesday, 11/30/82
- Removed and drummed sludge and solid material from vats in West room.
- Decontaminated and removed vats from West room.
- Drummed sludge and dirt from West room floor.

Wednesday, 12/01/82
- Delivered samples to Envirite for treatment analysis.
- Washed and decontaminated West room walls and floor.
- Removed wooden platforms from East room.
- Removed some sludge from East room floor.

Thursday, 12/02/82
- Loaded liquid acid material onto Envirite truck.
- Neutralized empty acid vats.
- Continued drumming sludge from East room floor.
- Loaded vats onto dumpster for disposal.

Friday, 12/03/82
- Solidified and drummed sludge from acid vats.
- Decontaminated and removed a few of the acid vats to disposal hopper.
- Secured site and returned home for weekend.

Monday, 12/06/82
- Loaded liquid base material to Envirite truck.
- Delivered additional samples to ECI
- Solidified and drummed some sludge from base vats.

Tuesday, 12/07/82
- Continued to remove sludge from vats and drums.
- Started decontamination of vats from East room and drums and loaded to hopper for disposal.

Wednesday, 12/08/82
- Completed decontamination of vats and drums.
- Wash and decontaminated East room walls and floor.
- Took additional samples to ECI.

Thursday, 12/09/82
- Additional decontamination of East room.
- Treated soil where drums were stored.
- Labeled and stenciled disposal drums for shipment to disposal site.
- Final decontamination of Middle room and all floor drains.

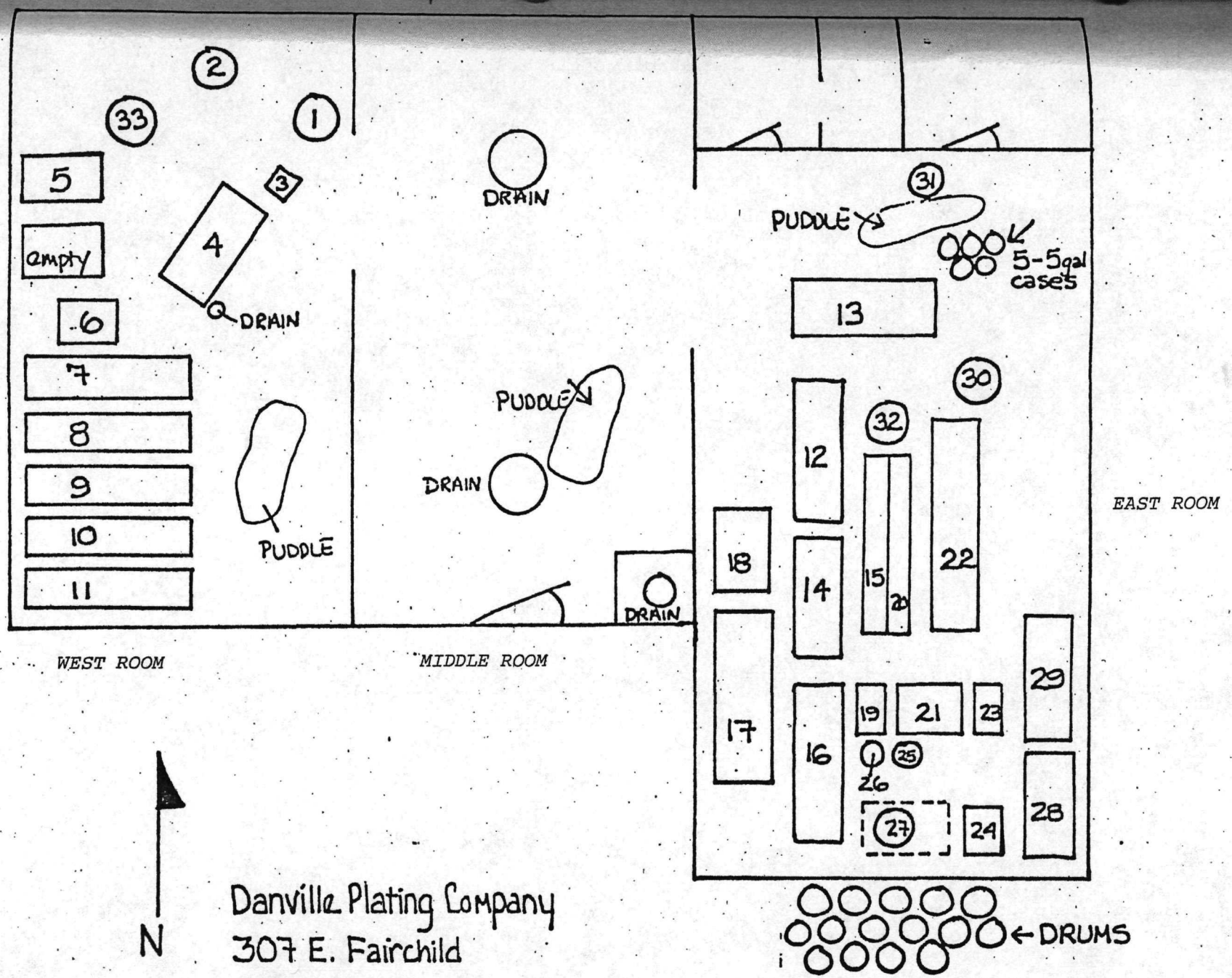
Friday, 12/10/82
- Decontaminated equipment.
- Loaded disposal drums to PSI truck.
- Delivered waste water to Chem-Clear.
- Loaded equipment and returned home.

Monday, 12/13/82
- Loaded balance of disposal drums to CECOS truck.
- Delivered drums to CECOS on PSI truck.
- Returned home - site work completed.

Tuesday, 12/14/82
- PSI truck returned from CECOS.

Tuesday, 12/21/82
- Delivered drum of Zinc Cyanide to Modern Plating in Chicago.

When all site work under this contract with the U.S. EPA was completed, PSI did, under contract with the Danville School Board, demolish and remove the building, floor and foundation from the site and grated and leveled the area where the building stood.



Danville Plating Company
307 E. Fairchild
11-23-82
S. Arendt

DANVILLE, ILLINOIS SITE CLEAN-UP

ANALYTICAL REPORT

ENVIRONMENTAL CONSULTANTS, INC.
391 Newman Avenue
Clarksville, Indiana 47130

ANALYTICAL REPORT

DANVILLE, ILLINOIS SITE CLEAN-UP

Site Description and Sampling

On 26 November 1982, two (2) chemists from Environmental Consultants, Inc., of Clarksville, Indiana, were on-site at the former Danville Plating Company in Danville, Illinois. Acting as a subcontractor of Petrochem Services, Inc., Lemont, Illinois, Environmental Consultants, Inc. provided assistance in the collection and field analysis of a total of 56 samples taken at the site.

The site consists of a building containing approximately 33 vats and containers, and 21 drums sitting outside the building. Liquids in each vat, container and drum were sampled and assigned a unique number (See inventory sheet). Additionally, each was assigned an approximate size and/or volume. Chain of Custody documents were prepared identifying each sample and its description. Field analysis consisted of a preliminary pH measurement. No other field analysis was conducted.

Table 1. Field Data.

Sample #	Description	Container	Volume[1]	pH[2]
1	White powder, labeled as Zinc cyanide	---	---	---
2	Clear yellow liquid	Pail, 5 gallon	2.5 gal.	5.0
3	Blue/green liquid, white precipitate	Pail, 5 gallon	3.75 gal.	3.0
4	Amber liquid	Vat, 2'x4'x0.5'	30 gal.	12.5
5	Amber liquid	Vat, 2'x3'x1.5'	67.5 gal.	12.5
6	Brown solid, with less than 1' liquid	Vat, 1.5'x1.5'x0.5'	---	---
7	Amber liquid with sludge	Vat, 2'x3'x1'	45 gal.	11.0
8	Brown to grey solid	Vat, 2'x5'x1'	---	---
9	Brown to grey solid	Vat, 2'x5'x1'	---	---
10	Brown to grey solid	Vat, 2'x5'x1'	---	---
11	Brown to grey solid	Vat, 2'x6'x1'	---	---
12	Brown liquid	Vat, 3'x6'x4'	540 gal.	11.0
13	Clear light yellow liquid	Vat, 2'x5'x1.5'	112 gal.	5.0
14	Clear white liquid, with brown precipitate	Vat, 2'x6'x2'	180 gal.	4.0
15	Green/yellow liquid	Vat, 2'x6'x3'	270 gal.	1.0
16	Light opaque liquid, with white precipitate	Vat, 2'x6'x4'	360 gal.	13.0
17	Dark amber liquid	Vat, 2'x6'3'	270 gal.	12.0
18	Dark amber liquid	Vat. 2'x3'x2'	90 gal.	8.5

1--Volumes are approximate, based upon container sizes.

2--pH field measurements were performed using full-range indicating litmus-type paper.

Table 1. Field Data. (Cont.)

Sample #	Description	Container	Volume	pH
19	Clear white liquid	Vat, 2'x3'x2'	90 gal.	5.5
20	Yellow liquid with light brown precipitate	Vat, 2'x6'x3'	270 gal.	5.0
21	Green liquid	Vat, 4'x6'x4'	720 gal.	5.0
22	Light yellow liquid	Vat, 4'x10'x1'	300 gal.	14.0
23	Yellow liquid, with light brown precipitate	Vat, 1'x3'x2'	45 gal.	10.0
24	Light yellow liquid	Vat, 2'x4'x2'	120 gal.	10.0
25	Clear white liquid, with brown precipitate	Pail, 5 gallon	4 gal.	9.5
26	Clear white liquid	---	1 gal.	1.0
27	Amber liquid	Drum, 55 gallon	41 gal.	8.5
28	Thick dark amber liquid	Vat, 2'x2'x0.17'	5 gal.	---
29	Dark amber liquid	Vat, 2'x6'x3'	270 gal.	3.0
30	Two-phase liquid	Drum, 30 gallon	20 gal.	5.0
31	Two-phase liquid	Drum, 15 gallon	11 gal.	4.5
32	Dark amber liquid	Drum, 55 gallon	37 gal.	2.0
33	Dark green liquid	Pail, 5 gallon	4 gal.	1.0
	DRUMS--Located outside			
Drum #1	Brown liquid	Drum, 55 gallon	3.5 gal.	8.0
Drum #2	Light yellow liquid, with brown sediment	Drum, 55 gallon	55 gal.	12
Drum #3	Clear liquid	Drum, 55 gallon	55 gal.	9.0

Table 1. Field Data. (Cont.)

Sample #	Description	Container	Volume	pH
Drum #4	Clear liquid	Drum, 55 gallon	5 gal.	5
Drum #5	Amber liquid	Drum, 55 gallon	55 gal.	12
Drum #6	Amber liquid	Drum, 55 gallon	27.5 gal.	13
Drum #7	Amber liquid	Drum, 55 gallon	55 gal.	14
Drum #8	Amber liquid	Drum, 55 gallon	27.5 gal.	13
Drum #9	Amber liquid	Drum, 55 gallon	55 gal.	14
Drum #10	Amber liquid	Drum, 55 gallon	55 gal.	13
Drum #11	Amber liquid	Drum, 55 gallon	55 gal.	13
Drum #12	Amber liquid	Drum, 55 gallon	55 gal.	14
Drum #13	Amber liquid	Drum, 55 gallon	55 gal.	13
Drum #14	Yellow liquid	Drum, 55 gallon	55 gal.	14
Drum #15	Amber liquid	Drum, 55 gallon	6 gal.	11
Drum #16	Amber liquid	Drum, 55 gallon	36.7 gal.	13
Drum #17	Amber liquid	Drum, 55 gallon	18.3 gal.	11.5
Drum #18	Amber liquid	Drum, 55 gallon	6 gal.	14
Drum #19	Amber liquid	Drum, 55 gallon	55 gal.	13
Drum #20	Amber liquid	Drum, 55 gallon	5 gal.	11.5
Drum #21	Amber liquid	Drum, 55 gallon	41.3 gal.	7.0

Laboratory Preparation

Preliminary information indicated that high concentrations of heavy metals and cyanide would be the hazards of most concern. No site work was performed until laboratory analyses were completed.

Upon arrival at the laboratories of Environmental Consultants, Inc., each sample was tested for pH to confirm field measurements (See Table 2 below).

Table 2. pH Measurements

A standard glass electrode system, calibrated at pH 4, 7 and 12, was used in the following measurements.

Sample #	pH value	Sample #	pH value
1	N/A	11	N/A
2	5.3	12	10.58
3	0.00	13	7.37
4	11.18	14	2.56
5	12.69	15	0.30
6	7.5	16	12.38
7	10.06	17	11.62
8	N/A	18	11.85
9	N/A	19	8.35
10	N/A	20	7.45

Table 2. pH Measurements. (Cont.)

Sample #	pH value	Sample #	pH value
21	4.96	28	0.00
22	13.11	29	0.30
23	9.96	30	5.00
24	9.86	31	3.50
25	9.55	32	0.60
26	0.78	33	0.00
27	9.86		

The samples were then grouped according to pH, and volumes were calculated from field descriptions. Samples from vats and containers located inside the building were kept separate from the drum samples collected outside the building. The inside acid and base groups were then proportioned according to approximate volumes given in Table 1. The resulting composites were then submitted for group analyses. Two (2) samples (Vats #13 and #20) were found to be slightly basic, and were included in the base composite. Several samples presented difficulties in measuring pH, and were not added in the composites. These samples were either oil and water mixtures (Vat #30), or were highly viscous material (Vat #28). These samples represent only 20 gallons

and 5 gallons, respectively. The drum samples were composited in the same manner, with separate analyses of the composite.

Laboratory Analyses

The results of pH measurements on indicated samples are listed in Table 3.

Table 3. pH Analyses, Vats and Containers

ACIDS		BASES	
Sample #	pH value	Sample #	pH value
2	5.30	4	11.18
3	0.00	5	12.69
14	2.56	6	7.50
15	0.30	7	10.06
21	4.96	12	10.58
26	0.78	13	7.37
		16	12.38
29	0.30	17	11.62
		18	11.85
31	3.50	19	8.35
32	0.60	20	7.45
33	0.00	22	13.11
ACID COMPOSITE	0.43		

Table 3. pH Analyses, Vats and Containers. (Cont.)

BASES

Sample #	pH value
23	9.96
24	9.86
25	9.55
27	9.86
BASE COMPOSITE	12.57

DRUMS

Drum #	pH value	Drum #	pH value
1	9.6	12	13.23
2	11.05	13	13.02
3	9.31	14	11.00
4	9.28	15	11.00
5	11.15	16	12.44
6	12.68	17	11.04
7	13.24	18	13.23
8	12.45	19	12.19
9	13.20	20	10.39
10	13.17	21	8.55
11	13.25		
		DRUM COMPOSITE	12.89

The composites were then submitted for the following analyses:

Metals:

Arsenic	Nickel
Barium	Mercury
Cadmium	Selenium
Chromium	Silver
Copper	Zinc
Lead	Iron (on Base only)

Inorganic:

Cyanide (on Base only)

The results are listed in Table 4.

Table 4. Composite Samples.

ACID

Samples: 2, 3, 14, 15, 21, 26, 28, 29, 30, 31, 32 and 33

Parameter	Concentration
Arsenic	0.0850 mg/l
Barium	7.43 mg/l
Cadmium	264.67 mg/l
Chromium	18,390.0 mg/l
Copper	685.75 mg/l

Table 4. Composite Samples. (Cont.)

ACID (Cont.)

Parameter	Concentration
Lead	142.95 mg/l
Mercury	0.067 mg/l
Nickel	40,593.0 mg/l
Selenium	0.0460 mg/l
Silver	2.695 mg/l
Zinc	664.0 mg/l

BASE

Samples: 4, 5, 6, 7, 12, 13, 16, 17, 18, 19, 20, 22, 23, 24, 25 and 27

Parameter	Concentration
Arsenic	0.0290 mg/l
Barium	5.00 mg/l
Cadmium	2,220.0 mg/l
Chromium	90.45 mg/l
Copper	6,658.0 mg/l
Iron	34.504 mg/l
Lead	11.10 mg/l
Mercury	<0.01 mg/l
Nickel	283.70 mg/l

Table 4. Composite Samples. (Cont.)

BASE (Cont.)

Parameter	Concentration
Selenium	0.0260 mg/l
Silver	1.650 mg/l
Zinc	12,360.0 mg/l
Total cyanide	3.35%

BASE (Drums)

Samples: Drums #1 through #21

Parameter	Concentration
Arsenic	0.4079 mg/l
Barium	2.375 mg/l
Cadmium	0.430 mg/l
Chromium	0.553 mg/l
Copper	12.935 mg/l
Iron	495.93 mg/l
Lead	1.18 mg/l
Mercury	0.008 mg/l
Nickel	1.088 mg/l
Selenium	<0.01 mg/l
Silver	0.125 mg/l
Zinc	13,780.0 mg/l
Cyanide	17,750 mg/l (1.775%)

The remaining solid samples (#8, 9, 10 and 11) were composited equally, and analyses were performed as above. The results appear in Table 5.

Table 5. Metals analysis in solids.
Samples #8, 9, 10 and 11.

Parameter	Concentration
Arsenic	0.6233 mg/l
Barium	30.167 mg/l
Cadmium	4,100.0 mg/l
Chromium	98.283 mg/l
Copper	84.617 mg/l
Iron	59,453.0 mg/l
Lead	430.50 mg/l
Mercury	0.5700 mg/l
Nickel	44.480 mg/l
Selenium	<0.01 mg/l
Silver	0.600 mg/l
Zinc	59,700.0 mg/l
Cyanide	13,250 mg/l (1.325%)

Two (2) soil samples were taken from an area adjacent to vats located in the West Room of the building. Samples of the top three inches (3") and from three inches (3") to ten inches (10") were combined for the analyses in Table 6.

Table 6. Soil samples, West Room. Samples #1 and #2.

Parameter	Concentration
Arsenic	0.4000 mg/l
Barium	223.20 mg/l
Cadmium	42.033 mg/l
Chromium	1,396.0 mg/l
Copper	644.13 mg/l
Lead	361.40 mg/l
Mercury	0.120 mg/l
Nickel	285.40 mg/l
Selenium	0.0588 mg/l
Silver	10.165 mg/l
Zinc	42,187.0 mg/l
Cyanide	0.08%

This completed the initial phase of analytical work and consultations with the site Contractor and E.P.A.-O.S.C.-required additional analyses so that disposal options could be properly devised. Further analyses included specified vat and container tests, soils analysis, and EP-Toxicity Characterizations.

On 1 December 1982, three (3) liquids and four (4) soils samples were received in Danville by Environmental Consultants, Inc. personnel. Two (2) new liquids, designated "New/Green" and "New/Yellow" were submitted, and a resample of Vat #13 was submitted for analyses. The Vat #13 sample was ordered for the purpose of restock. The two (2) new liquids were measured for pH. Both were found to be acidic, and it was decided that only metal analyses would be required. The results of a composite of both samples appears in Table 7.

Table 7. Composite of 1 December 1982 samples.

Parameter	Concentration
Arsenic	0.1232 mg/l
Barium	1.60 mg/l

Table 7. Composite of 1 Decmber 1982 samples. (Cont.)

Parameter	Concentration
Cadmium	490.533 mg/l
Chromium	631.47 mg/l
Copper	2,244.0 mg/l
Lead	74.13 mg/l
Mercury	0.0112 mg/l
Nickel	13,484.0 mg/l
Selenium	0.0012 mg/l
Silver	2.732 mg/l
Zinc	6,105.0 mg/l

The four (4) soil samples (labeled X101 through X104) were sampled at two (2) locations. The first, (X101), was taken in the area outside the drum area, and was analyzed for metals and cyanide. A composite of the remaining soils (X102 through X104), taken to a depth of twelve inches (12"), in three inch (3") increments, was analyzed as above. Results of each sample are listed in Table 8.

Table 8. Soil Analysis.

SOIL X101

Parameter	Concentration
Arsenic	7.440 mg/l
Barium	118.20 mg/l

Table 8. Soil Analysis. (Cont.)

SOIL COMPOSITE (X102, X103 and X104) (Cont.)

Parameter	Concentration
Selenium	0.1160 mg/l
Silver	1.780 mg/l
Zinc	3,317 mg/l
Cyanide	440.0 mg/l

Total cyanide content was found to be elevated in a number of composites. Further analyses were conducted to assess the levels of both total and free cyanide. Free cyanide was required for purposes of disposal option criteria. Free cyanide was measured when the total cyanide level was greater than 5% ± 0.5%. Table 9 lists those vats, with corresponding cyanide results.

Table 9. Total and Free Cyanide.

Analyses for Free and Total Cyanide were conducted in accordance with U.S. E.P.A. Test Methods for Evaluating Solid Wastes, SW-846, July 1982, Method #9010.

Sample designation	Free Cyanide as HCN	Total Cyanide
Vat #5	8.75%	8.125%
Vat #17	4.45%	4.60%
Vat #22	8.00%	10.85%

Table 8. Soil Analysis. (Cont.)

SOIL X101 (Cont.)

Parameter	Concentration
Cadmium	73.500 mg/l
Chromium	145.85 mg/l
Copper	56.47 mg/l
Lead	303.0 mg/l
Mercury	0.1040 mg/l
Nickel	176.70 mg/l
Selenium	0.1800 mg/l
Silver	1.413 mg/l
Zinc	6,660.0 mg/l
Cyanide	250.0 mg/l

SOIL COMPOSITE (X102, X103 and X104)

Parameter	Concentration
Arsenic	5.880 mg/l
Barium	152.50 mg/l
Cadmium	26.360 mg/l
Chromium	107.30 mg/l
Copper	283.40 mg/l
Lead	158.6 mg/l
Mercury	0.1560 mg/l
Nickel	180.80 mg/l

Table 9. Total and Free Cyanide. (Cont.

Sample designation	Free Cyanide as NCH	Total Cyanide
Vat #24	10.87%	11.25%
Vat #27	8.60%	9.25%
Vat #7	---	2.10%
Vat #4	---	0.11%
Vat #18	---	2.60%
Vat #16	---	0.01%
Vat #12	---	0.01%

As noted in Table 9, elevated cyanide readings were found in Vats #5, #22, #24 and #27. On-site treatment was performed to solidify the liquids from Vats #4, #5 and #7. Upon treatment, the solidified wastes were placed in D.O.T. drums and sampled. Total cyanide was run on each drum. Results of these tests are found in Table 10.

Table 10. Treated Waste Drums.

Drum #	Total Cyanide
Drum #1	1.15%
Drum #2	4.55%
Drum #3	1.14%
Drum #4	1.30%

Table 10. Treated Waste Drums. (Cont.)

Drum #	Total Cyanide
Drum #5	0.53%
Drum #6	2.03%

The soils from areas inside and outside the building were considered hazardous, based upon the results of tests conducted after removal of liquids in the vats. Also, material found beneath the vats showed cyanide present. Residues left in Vats #17, #22 and #27 (high cyanide in liquid phase) were tested. During clean-up fresh water and 12% sodium hypochlorite were used to decontaminate various containers. Therefore, a cyanide test was performed to assess hazard potential. The results appear in Table 11.

Table 11. Miscellaneous cyanide results.

Location/Description	Total Cyanide
Composited floor materials	0.76%
Treated hole in West Room	0.07%
Dirt beneath drums outside building	0.039%
Vat #17, Bottom residue	0.89%
Vat #22, Bottom residue	1.03%

Table 11. Miscellaneous cyanide results. (Cont.)

Location/Description	Total Cyanide
Vat #27, Bottom residue	1.22%
Rinse water	0.002%

An EP Toxicity Characteristic analysis was performed upon the above soils. Two (2) samples were submitted from:

1. Soil X101; outside drum area
2. Composite soils X102 through X104, West Room

The results are given in Table 12.

Table 12. EP Toxicity Characteristic

Sample X101

Parameter	Concentration
Arsenic	0.0030 mg/l
Barium	0.580 mg/l
Cadmium	0.686 mg/l
Chromium	0.063 mg/l
Mercury	0.0020 mg/l
Lead	<0.01 mg/l
Selenium	<0.0008 mg/l
Silver	0.011 mg/l

Table 12. EP Toxicity Characteristic (Cont.)

Composite of Soil Samples X102 through X104

Parameter	Concentration
Arsenic	0.0005 mg/l
Barium	0.550 mg/l
Cadmium	0.152 mg/l
Chromium	0.033 mg/l
Mercury	0.0050 mg/l
Lead	<0.01 mg/l
Selenium	<0.0008 mg/l
Silver	0.010 mg/l

APPENDIX

CHAIN OF CUSTODY DOCUMENTS

CHAIN OF CUSTODY RECORD

PROJ. NO. | PROJECT NAME

SAMPLERS: (Signature)

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION		NO. OF CONTAINERS	REMARKS
#1	11/26	3:15		✓	#18	pH - 8.5	ONE	#33562
#2	"	3:16		✓	#17	12	"	563
#3	"	3:17		✓	#16	13	"	564
#4	"	3:18		✓	#15	1.0	"	565
#5	"	3:19		✓	#14	4.0	"	566
#6	"	3:21		✓	#13	5.0	"	567
#7	"	3:24		✓	#12	11.0	"	568
#8	"	3:26		✓	#19	5.5	"	569
#9	"	3:28		✓	#20	6.0	"	570
#10	"	3:30		✓	#21	5.0	"	571
#11	"	3:34		✓	#22	14.0	"	572
#12	"	3:37		✓	#23	10.0	"	573
#13	"	3:40		✓	#24	10.0	"	574
#14	"	3:43		✓	#25	9.5	"	575
#15	"	3:44		✓	26	1.0	"	33576

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

3-0605

Figure 3. Example of chain-of-custody record.

CHAIN OF CUSTODY RECORD

PROJ. NO. | PROJECT NAME

SAMPLERS: (Signature)

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	pH	REMARKS
#16	11/24/82	3:46		✓	#27	ONE	8.5	33577
#17	"	3:50		✓	#28	"	—	578
#18	"	3:52		✓	#29 2FT 3FT left dup	"	3.0	579
#19	"	3:55		✓	#30	"	5.0	590
#20	"	4:05		✓	#31	"	4.5	581
#21	"	4:06		✓	#32	"	2.0	582
#22	"	4:08		✓	#33	"	1.0	583
#23	"	4:15		✓	#11 solid	"	—	584
#24	"	4:16		✓	#10 "	"	—	585
#25	"	4:17		✓	#9 "	"	—	586
#26	"	4:19		✓	#8 "	"	—	587
#27	"	4:20		✓	#7	"	11	588
#28	"	4:23		✓	#6 solid	"	—	589
#29	"	4:25		✓	#5	"	12.5	33590
#30	"	4:27		✓	#4	"	12.5	33591

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

3-0605

Figure 3. Example of chain-of-custody record.

CHAIN OF CUSTODY RECORD

PROJ. NO. | PROJECT NAME

SAMPLERS: (Signature)

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	pH	REMARKS
31	11/26/80	4:28		✓	#3	ONE	3	ECI# 33592
32	"	4:30		✓	#2	"	5.0	3
33	"	4:31		✓	#1 ZnCN	"	—	4
34	"	4:45		✓	DRUM #1	"	6.0	595
35	"			✓	DRUM #2	"	12.0	596
36	"			✓	DRUM #3	"	9.0	597
37	"			✓	DRUM #4	"	5.0	598
38	"			✓	DRUM #5	"	12.0	599
39	"			✓	DRUM #6	"	13.0	600
40	"			✓	DRUM #7	"	14.0	601
41	"			✓	DRUM #8		13.0	602
42	"			✓	DRUM #9		14.0	603
43	"			✓	DRUM #10		13.0	604
44	"			✓	DRUM #11		13	605
45	"			✓	DRUM #12		14	ECI-11 33606

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

3-0605

Figure 3. Example of chain-of-custody record.

CHAIN OF CUSTODY RECORD

PROJ. NO. / PROJECT NAME

SAMPLERS: (Signature)

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	pit						REMARKS
46				✓	DRUM #13	ONE	13						ECI# 33607
47	11/24/82			-	DRUM #14	"	14						33608
48	"			"	DRUM #15	"	11						33609
49				-	DRUM #16	"	13						610
50	"			"	DRUM #17	"	11.5						611
51	"			"	DRUM #18	"	14						612
52	"			/	DRUM #19	"	13						613
53	"			✓	DRUM #20	"	11.5						614
54	"			/	DRUM #21	"	7.0						33615
55	"			✓	#1 Soil Comp. TOP 3"	-	-						ECI# 33616
56	"			✓	#2 " " CN VATS	Lower Room							33617

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

3-0605

Figure 3. Example of chain-of-custody record.

CHAIN OF CUSTODY RECORD

PROJ. NO. | PROJECT NAME: DANVILLE PLATING/PETROCHEM

SAMPLERS: (Signature) Marion C. Camp

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	REMARKS
VAT 13	12-1	4PM		X	IN EAST ROOM	1	RESAMPLE
NEW/GREEN	"	"		X	IN EAST ROOM (4GAL)		LOW PH
NEW/YELLOW	"	"		X	IN EAST ROOM (20GAL)		APPROX 6 PH
X101	"	"	COMP		OUT SIDE DRUM AREA		3 inch level
X102	"	"			WEST ROOM		TOP 3" LEVEL
X103	"	"			" "		3 TO 6" "
X104	"	"			" "		8 TO 12" "

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Marion C. Camp	12/1/82 6:41 PM	Herb Mabbitt			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
		John E. Lucas			

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

3-0605

Figure 3. Example of chain-of-custody record.

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME
	DANVILLE PLATING / PetROCHem

SAMPLERS: *(Signature)*

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS						REMARKS
												Tests Required
1	12-6-82			X	#1 Solidified Drum	1						CN
2	12-6-82			X	#2 Solidified Drum	1						CN
3	12-6-82			X	#3 Solidified Drum	1						CN
4	12-6-82			X	#4 Solidified Drum	1						CN
5	12-6-82			X	#5 Solidified Drum	1						CN
6	12-6-82			X	#6 Solidified Drum	1						CN
7	12-6-82			X	Treated Hole in West Room Floor	1						CN
8.	12-6-82			X	East Room Floor Material #1	1						CN & Toxic Metals } Composite in Lab
9	12-6-82			X	East Room Floor Material #2	1						CN & Toxic Metals } Composite in Lab
10.	12-6-82			X	Solids #17 Vat	1						CN
11	12-6-82			X	Solids #22 Vat	1						CN
12	12-6-82			X	Solids #27 Vat	1						CN
13	12-6-82			X	Vat #28	1						CN
14	12-6-82			X	Dirt under Drums @ 1' depth	1						CN

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*

Relinquished by: *(Signature)*	Date / Time	Received for Laboratory by: *(Signature)*	Date / Time	Remarks
Ed [signature]	12-6-82 6:00PM EST	[signature]	12/6/82 6:00PM EST	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

3-0605

Figure 3. Example of chain-of-custody record.

CHAIN OF CUSTODY RECORD

PROJ. NO. | PROJECT NAME: DANVILLE/PLATING

SAMPLERS: (Signature)

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	REMARKS
	12/8	[redacted] PM		X	Site [redacted] Water Rinse	4	CN^- + metals

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
[signature]	12/8 4:00 PM EST	[signature]	12/8 4:00PM EST		

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

3-0605

Figure 3. Example of chain-of-custody record.

APPENDIX E

CRL Report

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: MINERALS-NUTRIENTS

DIVISION/BRANCH CDO SRS SAMPLING DATE 12-10 LAB ARRIVAL DATE 12-16 DUE DATE 1274

DU NUMBER Y-905 DATASET NUMBER 1961 STUDY Danville Plating PRIORITY 1 CONTRACTOR N

CRL LOG NUMBER	SAMPLE DESCRIPTION	SEDIMENTS SOLIDS CHEMICAL OXYGEN DEMAND MG COD/KG (DRY) MIN43327 /	SEDIMENTS SOLIDS MERCURY MG HG/KG (DRY) MIN99728	SEDIMENTS SOLIDS PHENOLICS MG PHENOL/KG (DRY) MIN44829	SEDIMENTS SOLIDS CYANIDE MG CN/KG (DRY) MIN44930
R3CE0350	5-0414				✓ 900
R3CE0351	5-0415				✓ 2000
					12/15/82 AJ

Note: Because of the extremely high levels of CN and sample heterogeneity, the precision is ±50%

AJ

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM I MINERALS-NUTRIENTS

DIVISION/BRANCH CDO SAMPLING DATE 12/6/82 LAB ARRIVAL DATE 12/9/82 DUE DATE 12/14/82

DU NUMBER Y905 DATASET NUMBER 1961 STUDY Danville Plating PRIORITY 7 CONTRACTOR NT

C42D99

CRL LOG NUMBER	SAMPLE DESCRIPTION	SEDIMENTS SOLIDS TOTAL SOLIDS % MIN45423	SEDIMENTS SOLIDS TOTAL VOLATILE SOLIDS % OF DRY WT. MIN45524	SEDIMENTS SOLIDS AMMONIA MG N/KG (DRY) MIN42925	SEDIMENTS SOLIDS TOTAL KJELDAHL NITROGEN MG N/KG (DRY) MIN43025	SEDIMENTS SOLIDS TOTAL PHOSPHORUS MG P/KG (DRY) MIN43126
83CE03510	S-0414	73.6				
83CE03511	S-0415	84.2				
		VK 12/15/82				
		Transmitted by MAP		12/17/82		

MSH 12/17/82

APPENDIX F

Shipping Documents

Environmental Protection Agency

2200 Churchill Road, Springfield, Illinois 62706

1782-6762

EMBER 02, 1982
PLICATION RECEIVED: 12/01/82
MIT NUMBER 521201-03111101
MIT ISSUED TO: LIQUACON CORP.
165TH & CENTER
HARVEY , IL 60426

WASTE STREAM NUMBER 521201
PERMIT EXPIRES: 12/11/82

LIQUACON CORP
NORSTAR/NARCISA
BLUE BELL , PA 19422

STE NAME: ACID
STE CLASSIFICATION: HAZARDOUS NOT SUBJECT TO FEE

MIT TO RELEIVE THE INDICATED WASTE IS GRANTED.

IS PERMIT IS GRANTED SUBJECT TO THE ATTACHED STANDARD CONDITIONS.

SPOSAL SITE: HARVEY/ENVIRITE IEPA SITE NO.: 03111101

NUAL VOLUME AUTHORIZED: 1,515 GALLONS
SPOSITION OF WASTE:

STE TREATMENT

TENTION: BILL SIMES IEPA GENERATOR NO.: 031600099IC
STE GENERATOR: US EPA
536 S CLARK AVE
CHICAGO , IL 60605
ECIAL CONDITIONS:

THIS PERMIT AUTHORIZES THE EMERGENCY TRANSPORTATION AND
ISPOSAL/TREATMENT/STORAGE OF THE ABOVE REFERENCED WASTE IN ACCORDANCE WITH
E CHAPTER #9 - SPECIAL WASTE HAULING REGULATION - RULE 701, ADOPTED
RCH 15, 1979 BY THE ILLINOIS POLLUTION BOARD.

C:RLM

C:US EPA
REGION: V

THOMAS E. CAVANAGH, JR.

by Larry D. Eyre

MANAGER, PERMIT SECTION
DIVISION OF LAND POLLUTION CONTROL

Standard Conditions

The Illinois Environmental Protection Act (Illinois Revised Statutes, Chapter 111-1/2, Section 1039) grants the Environmental Protection Agency authority to impose conditions on permits which it issues.

1. There shall be no deviations from the approved specifications unless a written request for modification of the permit is submitted to the Agency and approved.

2. Waste described in this permit must be accompanied by a manifest when transported except where exempt.

3. This permit is issued subject to all other regulations applicable to the permittee herein.

4. Hazardous waste, upon disposal, is subject to a fee in an amount as specified in the Environmental Protection Act. If the permittee is disposing of hazardous waste, he shall comply with Ill. Rev. Stat., 1980, Sec. 1022.2(b), as amended from time to time, and with the procedures adopted by the Agency in furtherance of such statutory provision and as set forth in a document entitled "Procedures for Operation of a Hazardous Waste Disposal Fee System," as published in 4 Illinois Register 774 (September 12, 1980).

5. The permittee shall allow any agent duly authorized by the Agency upon presentation of credentials:

   a. to enter at reasonable times, the permittee's premises where actual or potential effluent, emission or noise sources are located or where any activity is to be conducted pursuant to this permit.

   b. to have access to and copy at reasonable times any records required to be kept under the terms and conditions of this permit.

   c. to inspect at reasonable times, including during any hours of operation of equipment constructed or operated under this permit, such equipment or monitoring methodology or equipment required to be kept, used, operated, calibrated and maintained under this permit.

   d. to obtain and remove at reasonable times samples of any discharge or emission of pollutants.

   e. to enter at reasonable times and utilize any photographic, recording, testing, monitoring or other equipment for the purpose of preserving, testing, monitoring, or recording any activity, discharge, or emission authorized by this permit.

   f. to enter or inspect at reasonable times, the permittee's premises for any other lawful purpose under the Environmental Protection Act.

6. Standard Condition No. 5 shall not constitute a waiver of any constitutional right of the permittee.

7. These standard conditions shall prevail unless modified by special conditions.

8. This Agency reserves the right to require installation of additional monitoring devices, to alter the selection of parameters to be analyzed and to alter monitoring frequencies as may be necessary to fulfill the intent of the Environmental Protection Act.

9. This permit may be modified or revised to make the permit compatible with applicable Amendments to the Illinois Environmental Protection Act, new or amended Illinois Pollution Control Board Rules and Regulations, Regulations promulgated by the United States Environmental Protection Agency pursuant to the Resource Conservation and Recovery Act of 1976, as amended (RCRA) or Amendments to RCRA. Such modification or revision shall become part of this permit on the effective date of the Rule, Regulation or Amendment. The Agency will notify the permittee of such modification or revision.

   This standard condition shall not prejudice the permittee's right to obtain or be granted a reasonable time in which to comply, but in no event shall such time be later than any applicable Federal or State of Illinois statutory or regulatory compliance date, in connection with any modification or revision made pursuant thereto.

10. In accordance with Rule 302(A) of Illinois Pollution Control Board Rules and Regulations, Chapter 9: Special Waste Hauling Regulations (Chapter 9), the permittee shall not accept the special waste described herein for treatment, storage or disposal from any person unless that person has a valid special waste hauling permit issued by the Agency under Part II of Chapter 9, and concurrently presents to the permittee, or his agent, a completed, signed manifest as required by Part V of Chapter 9, which designates the permittee's facility as the destination for the special waste.

Environmental Protection Agency

2200 Churchill Road, Springfield, Illinois 62706

RECEIVED

JAN

WASTE MANAGEMENT BRANCH
EPA, REGION V

IT/782-6762

EMBER 10, 1982 WASTE STREAM NUMBER: 5P1202
PLICATION RECEIVED: 12/0 PERMIT EXPIRES: 12/1A/82
MIT NUMBER: 5P1202-051
MIT ISSUED TO: LIONACON CORP. LIONACON CORP.
165TH & CENTER WORKING/HANDLING
HARVEY , IL 60426 BLUE BELL , PA 19422

STE NAME: CAUSTIC CYANIDE WASTE
STE CLASSIFICATION: HAZARDOUS NOT SUBJECT TO FEE

MIT TO RECEIVE THE INDICATED WASTE IS GRANTED.

IS PERMIT IS GRANTED SUBJECT TO THE ATTACHED STANDARD CONDITIONS.

SPOSAL SITE: HARVEY/ENVIROTTE IEPA SITE NO.: 0311111

NUAL VOLUME AUTHORIZED: 2,000 GALLONS
SPOSITION OF WASTE:

STE TREATMENT

TENTION: BILL SIMES IEPA GENERATOR NO.: 0316000910
STE GENERATOR: USEPA -
REFER TO 0316000006/
CHICAGO , IL 60605

PECIAL CONDITIONS:

THIS PERMIT AUTHORIZES THE EMERGENCY TRANSPORTATION AND
ISPOSAL/TREATMENT/STORAGE OF THE ABOVE REFERENCED WASTE IN ACCORDANCE WITH
HE CHAPTER 39 - SPECIAL WASTE HAULING REGULATION - RULE 701, ADOPTED
ARCH 15, 1979 BY THE ILLINOIS POLLUTION BOARD.

EC:RWS

THOMAS E. CAVANAGH, JR.

by Terry G. Hayes
MANAGER, PERMIT SECTION
DIVISION OF LAND POLLUTION CONTROL

C:USEPA
REGION: N

Standard Conditions

The Illinois Environmental Protection Act (Illinois Revised Statutes, Chapter 111-1/2, Section 1039) grants the Environmental Protection Agency authority to impose conditions on permits which it issues.

1. There shall be no deviations from the approved specifications unless a written request for modification of the permit is submitted to the Agency and approved.

2. Waste described in this permit must be accompanied by a manifest when transported except where exempt.

3. This permit is issued subject to all other regulations applicable to the permittee herein.

4. Hazardous waste, upon disposal, is subject to a fee in an amount as specified in the Environmental Protection Act. If the permittee is disposing of hazardous waste, he shall comply with Ill. Rev. Stat., 1980, Sec. 1022.2(b), as amended from time to time, and with the procedures adopted by the Agency in furtherance of such statutory provision and as set forth in a document entitled "Procedures for Operation of a Hazardous Waste Disposal Fee System," as published in 4 Illinois Register 774 (September 12, 1980).

5. The permittee shall allow any agent duly authorized by the Agency upon presentation of credentials:

   a. to enter at reasonable times, the permittee's premises where actual or potential effluent, emission or noise sources are located or where any activity is to be conducted pursuant to this permit.

   b. to have access to and copy at reasonable times any records required to be kept under the terms and conditions of this permit.

   c. to inspect at reasonable times, including during any hours of operation of equipment constructed or operated under this permit, such equipment or monitoring methodology or equipment required to be kept, used, operated, calibrated and maintained under this permit.

   d. to obtain and remove at reasonable times samples of any discharge or emission of pollutants.

   e. to enter at reasonable times and utilize any photographic, recording, testing, monitoring or other equipment for the purpose of preserving, testing, monitoring, or recording any activity, discharge, or emission authorized by this permit.

   f. to enter or inspect at reasonable times, the permittee's premises for any other lawful purpose under the Environmental Protection Act.

6. Standard Condition No. 5 shall not constitute a waiver of any constitutional right of the permittee.

7. These standard conditions shall prevail unless modified by special conditions.

8. This Agency reserves the right to require installation of additional monitoring devices, to alter the selection of parameters to be analyzed and to alter monitoring frequencies as may be necessary to fulfill the intent of the Environmental Protection Act.

9. This permit may be modified or revised to make the permit compatible with applicable Amendments to the Illinois Environmental Protection Act, new or amended Illinois Pollution Control Board Rules and Regulations, Regulations promulgated by the United States Environmental Protection Agency pursuant to the Resource Conservation and Recovery Act of 1976, as amended (RCRA) or Amendments to RCRA. Such modification or revision shall become part of this permit on the effective date of the Rule, Regulation or Amendment. The Agency will notify the permittee of such modification or revision.

   This standard condition shall not prejudice the permittee's right to obtain or be granted a reasonable time in which to comply, but in no event shall such time be later than any applicable Federal or State of Illinois statutory or regulatory compliance date, in connection with any modification or revision made pursuant thereto.

10. In accordance with Rule 302(A) of Illinois Pollution Control Board Rules and Regulations, Chapter 9: Special Waste Hauling Regulations (Chapter 9), the permittee shall not accept the special waste described herein for treatment, storage or disposal from any person unless that person has a valid special waste hauling permit issued by the Agency under Part II of Chapter 9, and concurrently presents to the permittee, or his agent, a completed, signed manifest as required by Part V of Chapter 9, which designates the permittee's facility as the destination for the special waste.

Illinois Environmental Protection Agency · 2200 Churchill Road, Springfield, IL 62706

217/785-2361

Dear Generator:

We have discontinued sending out manifest forms automatically to generators whose permit has been renewed.

If you are in need of manifest forms, submit this request by return mail.

Please write below the name and address of the facility to which you would like the manifest forms sent.

Company Name: _____

Address: _____

City, State, & Zip: _____

Attention: _____

IL. EPA Waste Stream Number: _ _ _ _ _ _
(Note: the above designated Waste Stream number must be valid and current.)

If manifests are requested for out-of-state shipments only, designate the Illinois EPA assigned site code number for the receiving facility below.

IL. EPA Site Code Number: _ _ _ _ _ _ _ _ _

Frequency of transportation (check one)

_____ 1 = one time only
_____ 2 = daily
_____ 3 = weekly
_____ 4 = bi-weekly
_____ 5 = monthly
_____ 6 = bi-monthly
_____ 7 = quarterly
_____ 8 = semi-annual

For your information we are providing you the statuatory citation and penalties notice as required under Chapter 127, Section 63b13.23 and 1401-1406 State of Illinois Forms Management Rules concerning the manifest form.

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 22 . Disclosure of this information is required. Failure to do so may result in a civil penalty up to $10,000.00 and an additional civil penalty up to $1,000.00 for each day the failure continues, a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center.

If we can be of any further service, please feel free to contact us.

Sincerely,

Stephen A. Colantino

Stephen A. Colantino
Manifest Sub-Unit
Compliance Assurance Unit
Division of Land Pollution Control

COMPLETED BY GENERATOR

STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
2200 CHURCHILL ROAD, SPRINGFIELD, ILLINOIS 62706
(217) 782-6760
SPECIAL WASTE HAULING MANIFEST

0656902

Authorization Number 521201

SEPA (Company Name) | 536 So. CLARK Address | 3123532318 Phone Number | 0316000991 Generator Number

CHICAGO City | IL State | 60605 Zip | ILE200000047 EPA Number

WASTE HAULER(S)

ENVIRITE Hauler Name | 16435 So Center Ave Harvey, Ill. 60426 Hauler Address | S.W.H. Registration Number 1071003

3125967040 Phone Number | ILD000666206 EPA Number

Hauler Name ____ Hauler Address ____ S.W.H. Registration Number ~~107~~

Phone Number ____ EPA Number ____

DESTINATION — DISPOSAL STORAGE OR TREATMENT SITE

ENVIRITE (Facility Name) | 16435 So CENTER Address | 03111101 Site Number

HARVEY City | IL State | 60426 Zip | 3125967040 Phone Number | ILD000666206 EPA Number

Alternate (Facility Name) ____ Address ____ Site Number ____

City ____ State ____ Zip ____ Phone Number ____ EPA Number ____

COMPLETED BY GENERATOR

WASTE NAME: WASTE ACID LIQUID N.O.S. WASTE PHASE: LIQUID (Liquid, Gaseous, Solid)

SPECIAL WASTE BEING TRANSPORTED UNDER THIS MANIFEST IS OF THE DOT HAZARD CLASSIFICATION INDICATED IMMEDIATELY BELOW:

SHIPPING DESCRIPTION: WASTE ACID LIQUID N.O.S.

HAZARD CLASS: CORROSIVE MATERIAL

UN or NA Number: NA1760

EPA HW Number: F009

FOR USE: 8770 (LBS) TONS (circle one)

WEIGHT FOR I.E.P.A. USE MUST BE CONVERTED TO CU. YDS. OR GAL.

QUANTITY OF WASTE DELIVERED: 009311 (1) GALLONS 2 CU. YDS. (Circle One) 1

METHOD OF SHIPMENT (Circle One) (DRUMS ____ Number) (TANK TRUCK) OPEN TRUCK OTHER (Specify) ____

THIS IS TO CERTIFY THAT THE ABOVE-NAMED WASTE ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED, AND LABELED AND IS IN PROPER CONDITION FOR TRANSPORTATION, ACCORDANCE WITH THE APPLICABLE REGULATIONS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND I.E.P.A.

HEREBY AGREE TO AND CERTIFY THE ABOVE WRITTEN INFORMATION [signature] (Authorized Signature) DATE: 12-2-82

HAULER

I HEREBY CERTIFY THAT THE ABOVE-DESCRIBED WASTE AND QUANTITY HAS BEEN ACCEPTED IN PROPER CONDITION FOR TRANSPORT AND I ACKNOWLEDGE THE DESTINATION AS INDICATED:

Marshall Jones (Authorized Signature) DATE: 12/02/82

____ (Authorized Signature) DATE: ___/___/___

DISPOSAL, STORAGE, OR TREATMENT FACILITY* HAZARDOUS WASTE SUBJECT TO FEE YES ____ NO ✓

I HEREBY CERTIFY THAT THE ABOVE-DESCRIBED WASTE AND INDICATED QUANTITY HAS BEEN ACCEPTED AT THE SITE SPECIFIED ABOVE:

D. F. Dykstra (Authorized Signature) DATE: 12/03/82

COMMENTS OR SPECIAL INSTRUCTIONS: ____

IEPA: 217 / 782-3637 *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* OUTSIDE ILLINOIS: 800 / 424-8802 or 202 / 426-2675

DISTRIBUTION: PART - 1 GENERATOR PART - 2 IEPA PART - 3 SITE PART - 4 HAULER PART - 5 IEPA PART 6 - GENERATOR

GENERATOR COPY — PART 1 - DO NOT REMOVE PART 1 FROM SET UNTIL COMPLETED.

STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
2200 CHURCHILL ROAD, SPRINGFIELD, ILLINOIS 62706
(217) 782-6760
SPECIAL WASTE HAULING MANIFEST

TO BE COMPLETED BY WASTE GENERATOR

DEC 13 1982

0656903

Authorization Number 521202

ISEPA (Company Name) | 536 So. Clark (Address) | 3123532318 (Phone Number) | 0316000991 G (Generator Number)

Chicago (City) | IL (State) | 60605 (Zip) | ILE2000000047 (EPA Number)

WASTE HAULER(S)

Envirite (Hauler Name) | 16435 So Center Ave. Harvey, IL 60426 (Hauler Address) | S.W.H. Registration Number 1071002

3125967040 (Phone Number) | ILD000666206 (EPA Number)

Hauler Name | Hauler Address | S.W.H. Registration Number | Phone Number | EPA Number

DESTINATION — DISPOSAL STORAGE OR TREATMENT SITE

Envirite (Facility Name) | 16435 So Center (Address) | 0311 1101 (Site Number)

Harvey (City) | IL (State) | 60426 (Zip) | 3125967040 (Phone Number) | ILD000666206 (EPA Number)

Alternate (Facility Name) | Address | Site Number

City | State | Zip | Phone Number | EPA Number

TO BE COMPLETED BY WASTE GENERATOR

WASTE NAME: Waste Cyanide Solution WASTE PHASE: Liquid (Liquid, Gaseous, Solid)

SPECIAL WASTE BEING TRANSPORTED UNDER THIS MANIFEST IS OF THE DOT HAZARD CLASSIFICATION INDICATED IMMEDIATELY BELOW:

SHIPPING DESCRIPTION:	HAZARD CLASS:	UN or NA Number	EPA HW Number
Waste Cyanide Solution	Poison	UN1935	F007

WEIGHT FOR I.E.P.A. USE: 22334 (LBS) TONS (circle one)

WEIGHT FOR I.E.P.A. USE MUST BE CONVERTED TO CU. YDS. OR GAL.

QUANTITY OF WASTE DELIVERED: 002600 (1) GALLONS (Circle One) (2) CU. YDS. 1

METHOD OF SHIPMENT (Circle One) (DRUMS_____ Number) TANK TRUCK OPEN TRUCK OTHER (Specify) _____

I HEREBY CERTIFY THAT THE ABOVE-NAMED WASTE ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED, AND LABELED AND IS IN PROPER CONDITION FOR TRANSPORTATION, IN ACCORDANCE WITH THE APPLICABLE REGULATIONS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND I.E.P.A.

I HEREBY AGREE TO AND CERTIFY THE ABOVE WRITTEN INFORMATION [signature] (Authorized Signature) DATE: _____

WASTE HAULER

I HEREBY CERTIFY THAT THE ABOVE-DESCRIBED WASTE AND QUANTITY HAS BEEN ACCEPTED IN PROPER CONDITION FOR TRANSPORT AND I ACKNOWLEDGE THE DESTINATION AS INDICATED:

Marshall Stones (Authorized Signature) DATE: 12/06/82

(Authorized Signature) DATE: / /

DISPOSAL, STORAGE, OR TREATMENT FACILITY*

HAZARDOUS WASTE SUBJECT TO FEE YES____ NO C

I HEREBY CERTIFY THAT THE ABOVE-DESCRIBED WASTE AND INDICATED QUANTITY HAS BEEN ACCEPTED AT THE SITE SPECIFIED ABOVE:

William C. Ladwig (Authorized Signature) DATE: 12/06/82

COMMENTS OR SPECIAL INSTRUCTIONS: _____

ILLINOIS: 217 / 782-3637 *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* OUTSIDE ILLINOIS: 800 / 424-8802 or 202 / 426-2675

DISTRIBUTION: PART - 1 GENERATOR PART - 2 IEPA PART - 3 SITE PART - 4 HAULER PART - 5 IEPA PART 6 - GENERATOR

GENERATOR COPY — PART 1 - DO NOT REMOVE PART 1 FROM SET UNTIL COMPLETED.

STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
2200 CHURCHILL ROAD, SPRINGFIELD, ILLINOIS 62706
(217) 782-6760

SPECIAL WASTE HAULING MANIFEST

#6305 0713168

RECD. 1110 Authorization Number

ACCT.

APPROVED

BE COMPLETED BY WASTE GENERATOR

U.S. EPA (Company Name) | 536 So. Clark (Address) | 312-353-2318 (Phone Number)

0 3 1 6 0 0 0 9 9 1 G — Generator Number

Chicago (City) | Illinois (State) | 60605 (Zip)

I L E 2 0 0 0 0 0 0 4 7 — EPA Number

WASTE HAULER(S)

Petrochem Services, Inc. (Hauler Name) | 1 W. Stephen Lemont, Il 60439 (Hauler Address)

S.W.H. Registration Number 0 1 5 6 0 1 1

312-257-5875 (Phone Number)

I L D 0 8 5 3 4 9 2 6 4 — EPA Number

Hauler Name | Hauler Address

S.W.H. Registration Number

Phone Number | EPA Number

DESTINATION — DISPOSAL STORAGE OR TREATMENT SITE

Cecos Cer Co (Facility Name) | 5092 Amber Road (Address)

9 3 9 0 2 5 0 1 — Site Number

Williamsburg (City) | Ohio (State) | 45176 (Zip) | 513-724-6114 (Phone Number)

O H D 0 8 7 4 3 3 7 4 4 — EPA Number

Alternate (Facility Name) | Address | Site Number

City | State | Zip | Phone Number | EPA Number

BE COMPLETED BY WASTE GENERATOR

WASTE NAME: Waste Cyanide Mixture Dry

WASTE PHASE: Solid (Liquid, Gaseous, Solid)

SPECIAL WASTE BEING TRANSPORTED UNDER THIS MANIFEST IS OF THE DOT HAZARD CLASSIFICATION INDICATED IMMEDIATELY BELOW:

SHIPPING DESCRIPTION: Waste Cyanide Mixture Dry Poison B

HAZARD CLASS:

U N 1 5 8 8 — UN or NA Number

F 0 0 7 — EPA HW Number

WEIGHT FOR I.E.P.A. USE: 15,000 LBS. TONS (circle one)

WEIGHT FOR I.E.P.A. USE MUST BE CONVERTED TO CU. YDS. OR GAL.

QUANTITY OF WASTE DELIVERED: 0 0 1 6 5 0 — 1 GALLONS (Circle One) 2 CU. YDS. 1

METHOD OF SHIPMENT (Circle One) (DRUMS 30 Number) TANK TRUCK OPEN TRUCK OTHER (Specify)

THIS IS TO CERTIFY THAT THE ABOVE-NAMED WASTE ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED, AND LABELED AND IS IN PROPER CONDITION FOR TRANSPORTATION, IN ACCORDANCE WITH THE APPLICABLE REGULATIONS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND I.E.P.A.

I HEREBY AGREE TO AND CERTIFY THE ABOVE WRITTEN INFORMATION (Authorized Signature) DATE: 12-13-82

WASTE HAULER

I HEREBY CERTIFY THAT THE ABOVE-DESCRIBED WASTE AND QUANTITY HAS BEEN ACCEPTED IN PROPER CONDITION FOR TRANSPORT AND I ACKNOWLEDGE THE DESTINATION AS INDICATED:

Cecos Work Order #6305
Product Code #4063K

Dottie Hamilton (Authorized Signature) DATE: 12/13/82

(Authorized Signature) DATE: / /

RECEIVED DEC 28 1982 OLDERMONT ENVIRONMENTAL RECLAMATION

SPECIAL, STORAGE, OR TREATMENT FACILITY*

HAZARDOUS WASTE SUBJECT TO FEE YES X NO

I HEREBY CERTIFY THAT THE ABOVE-DESCRIBED WASTE AND INDICATED QUANTITY HAS BEEN ACCEPTED AT THE SITE SPECIFIED ABOVE:

(Authorized Signature) DATE: 12/13/82

COMMENTS OR SPECIAL INSTRUCTIONS:

ILLINOIS: 217 / 782-3637

24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS

OUTSIDE ILLINOIS: 800 / 424-8802 or 202 / 426-2675

DISTRIBUTION: PART - 1 GENERATOR | PART - 2 IEPA | PART - 3 SITE | PART - 4 HAULER | PART - 5 IEPA | PART 6 - GENERATOR

GENERATOR COPY — PART 1 - DO NOT REMOVE PART 1 FROM SET UNTIL COMPLETED.

STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
2200 CHURCHILL ROAD, SPRINGFIELD, ILLINOIS 62706
(217) 782-6760
SPECIAL WASTE HAULING MANIFEST

DEC 15 1982

0713158 (1–7)

Authorization Number 521205 (8–13)

BE COMPLETED BY STE GENERATOR

IS EPA (Company Name)	536 S Clark (Address)	3123532318 (Phone Number)	0316000991 G (14 Generator Number 24)
Chicago (City)	IL (State)	60605 (Zip)	ILE2000000047 (EPA Number)

WASTE HAULER(S)

Thochem Ser (Hauler Name)	PO Box 337 Lemont IL (Hauler Address)		S.W.H. Registration Number 6156011 (25–31)
		312257-5875 (Phone Number)	ILD085349264 (EPA Number)
(Hauler Name)	(Hauler Address)		S.W.H. Registration Number (32–38)
		(Phone Number)	(EPA Number)

DESTINATION — DISPOSAL STORAGE OR TREATMENT SITE

Chem-Clear (Facility Name)	11800 S Stony Is (Address)				0316005 (39 Site Number 46)
Chicago (City)	IL (State)	60617 (Zip)	312646-6202 (Phone Number)	ILT000608471 (EPA Number)	
(Alternate (Facility Name))	(Address)				(39 Site Number 46)
(City)	(State)	(Zip)	(Phone Number)	(EPA Number)	

BE COMPLETED BY E GENERATOR

WASTE NAME: Waste Cyanide Solution WASTE PHASE: Liquid (Liquid, Gaseous, Solid)

SPECIAL WASTE BEING TRANSPORTED UNDER THIS MANIFEST IS OF THE DOT HAZARD CLASSIFICATION INDICATED IMMEDIATELY BELOW:

SHIPPING DESCRIPTION:	HAZARD CLASS:		
Waste Cyanide Solution	Poison B	001935 (UN or NA Number)	F007 (EPA HW Number)

FOR USE 16,600 LBS TONS (circle one)

WEIGHT FOR I.E.P.A. USE MUST BE CONVERTED TO CU. YDS. OR GAL.

QUANTITY OF WASTE DELIVERED: 002000 (47–52) GALLONS (Circle One) 2 CU. YDS. (53)

METHOD OF SHIPMENT (Circle One) (DRUMS_____ Number) TANK TRUCK OPEN TRUCK OTHER (Specify) _____

TO CERTIFY THAT THE ABOVE-NAMED WASTE ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED, AND LABELED AND IS IN PROPER CONDITION FOR TRANSPORTATION, CORDANCE WITH THE APPLICABLE REGULATIONS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND I.E.P.A.

EBY AGREE TO AND CERTIFY THE ABOVE WRITTEN INFORMATION (Authorized Signature) DATE: 12-10-82

E HAULER

I HEREBY CERTIFY THAT THE ABOVE-DESCRIBED WASTE AND QUANTITY HAS BEEN ACCEPTED IN PROPER CONDITION FOR TRANSPORT AND I ACKNOWLEDGE THE DESTINATION AS INDICATED:

Brett Hamilton (Authorized Signature) DATE: 12/10/82 (54–59)

(Authorized Signature) DATE: __/__/__

AL, STORAGE, OR TREATMENT FACILITY* HAZARDOUS WASTE SUBJECT TO FEE YES_____ NO X

BY CERTIFY THAT THE ABOVE-DESCRIBED WASTE AND INDICATED QUANTITY HAS BEEN ACCEPTED AT THE SITE SPECIFIED ABOVE:

D. Davenport (Authorized Signature) DATE: 12/10/82 (60–65)

NTS OR SPECIAL INSTRUCTIONS: _____

24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS

NOIS: 217 / 782-3637 OUTSIDE ILLINOIS: 800 / 424-8802 or 202 / 426-2675

DISTRIBUTION: PART - 1 GENERATOR PART - 2 IEPA PART - 3 SITE PART - 4 HAULER PART - 5 IEPA PART 6 - GENERATOR

GENERATOR COPY — PART 1 - DO NOT REMOVE PART 1 FROM SET UNTIL COMPLETED.

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111½, Section 22. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $10,000.00 and an additional civil penalty up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center.

COMPLETED BY GENERATOR

12/21/82 ... DEC 20 1982

STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
2200 CHURCHILL ROAD, SPRINGFIELD, ILLINOIS 62706
(217) 782-6760
SPECIAL WASTE HAULING MANIFEST

#6303

0713159

Authorization Number ____

...S. EPA — (Company Name) | 536 So. Clark — Address | 312-353-2318 — Phone Number | 0 3 1 6 0 0 0 9 9 1 G — Generator Number

...icago — City | Il — State | 60605 — Zip | I L E 2 0 0 0 0 0 0 4 7 — EPA Number

WASTE HAULER(S)

...os Cer Co. — Hauler Name | 5092 Amber Road, Williamsburg, OH 45176 — Hauler Address | S.W.H. Registration Number 1043011 (~~12710~~)

513-724-6114 — Phone Number | O H D 0 8 7 4 3 3 7 4 4 — EPA Number

Hauler Name ____ Hauler Address ____ S.W.H. Registration Number ____

Phone Number ____ EPA Number ____

DESTINATION — DISPOSAL STORAGE OR TREATMENT SITE

...cos Cer Co. — (Facility Name) | 5092 Amber Road — Address | 9 3 9 0 2 5 0 1 — Site Number

...lliamsburg — City | Ohio — State | 45176 — Zip | 513-724-6114 — Phone Number | O H D 0 8 7 4 3 3 7 4 4 — EPA Number

Alternate (Facility Name) ____ Address ____ Site Number ____

City ____ State ____ Zip ____ Phone Number ____ EPA Number ____

...MPLETED BY ...ENERATOR

WASTE NAME: Waste Cyanide Mixture Dry   WASTE PHASE: Solid (Liquid, Gaseous, Solid)

...IAL WASTE BEING TRANSPORTED UNDER THIS MANIFEST IS OF THE DOT HAZARD CLASSIFICATION INDICATED IMMEDIATELY BELOW:

...HIPPING DESCRIPTION: Waste Cyanide Mixture Dry   HAZARD CLASS: Poison B   UN 1588 — UN or NA Number   F007 — EPA HW Number

...FOR ...SE 36000 LBS TONS (circle one)   WEIGHT FOR I.E.P.A. USE MUST BE CONVERTED TO CU. YDS. OR GAL.   QUANTITY OF WASTE DELIVERED: 003960   1 GALLONS (Circle One) 2 CU. YDS. 1

...METHOD OF SHIPMENT (Circle One) (DRUMS 72 Number)   TANK TRUCK   OPEN TRUCK   OTHER (Specify) ____

...CERTIFY THAT THE ABOVE-NAMED WASTE ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED, AND LABELED AND IS IN PROPER CONDITION FOR TRANSPORTATION, ...RDANCE WITH THE APPLICABLE REGULATIONS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND I.E.P.A.

...AGREE TO AND CERTIFY THE ABOVE WRITTEN INFORMATION ____ (Authorized Signature)   DATE: 12-13-82

...HAULER

I HEREBY CERTIFY THAT THE ABOVE-DESCRIBED WASTE AND QUANTITY HAS BEEN ACCEPTED IN PROPER CONDITION FOR TRANSPORT AND I ACKNOWLEDGE THE DESTINATION AS INDICATED:

Lloyd ... (Authorized Signature)   Cecos Work Order #6303 Product Code #4063K   DATE: 12/13/83

(Authorized Signature)   DATE: ___/___/___

...L, STORAGE, OR TREATMENT FACILITY*   HAZARDOUS WASTE SUBJECT TO FEE YES ✓ NO ____

...CERTIFY THAT THE ABOVE-DESCRIBED WASTE AND INDICATED QUANTITY HAS BEEN ACCEPTED AT THE SITE SPECIFIED ABOVE:

Tom Fleming (Authorized Signature)   DATE: 12/14/82

...S OR SPECIAL INSTRUCTIONS: ____

...S: 217 / 782-3637   *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS*   OUTSIDE ILLINOIS: 800 / 424-8802 or 202 / 426-2675

...ION: PART - 1 GENERATOR   PART - 2 IEPA   PART - 3 SITE   PART - 4 HAULER   PART - 5 IEPA   PART 6 - GENERATOR

GENERATOR COPY — PART 1 - DO NOT REMOVE PART 1 FROM SET UNTIL COMPLETED.

APPENDIX G

Community Action Plan

Community Action Plan

Danville Plating Co.
Danville, Il.

11/26/82

Danville Plating

A. BACKGROUND

1. Site Background

Last summer the Danville School Board purchased the property on which this abandoned Danville Plating Co. facility stands from an elderly man, Mr. Venetta. The property is directly across the street from the Danville High School. Venetta had agreed to clean up the property but stalled. Finally, last week he said he would not be able to clean it up. Neighbors living next door to the property alerted the County Emergency Services and Disaster Agency and Illinois EPA because of rumors concerning the site. On Friday, 11/19, OSC Bill Sims, ESD, Spill Response Section, and IEPA as well as County ESDA personnel visited the site. They found the building in poor condition with a leaking roof. Some 21 drums were found on the property outside the building. Inside the building were 17 open vats, each containing from 40 to 50 gallons up to 500 gallons of liquid waste. Two had rotted through, spilling contents on the floor. Caustics and cyanide are in some of the vats while others contain acids. A removal action is expected to begin 11/29 and last 3 to 4 days.

2. Community Concern

Community concern appears to be restricted, at this point, to those neighbors immediately adjacent to the site and local officials who have been notified and who are working closely with us to remedy the situation. These include John Schaffer, Director, County Emergency Services and Disaster Agency, Mike Atchison, Public Affairs Officer, ESDA and city of Danville, police and fire officials, the Mayor and School Board Officials.

3. Key Issues

- Safety of nearby residents

General

Specific

- threat of hydrocyanide gas release should mixing of cyanide and acids take place

Mail 0053

1. General Objectives

The general objective is to keep local and county officials as well as concerned residents informed throughout the removal action. Further, we want to ensure safety of nearby residents who are to be evacuated for a period of time during the removal operation (3 to 4 families). I asked that they be informed of this well in advance, in order to avoid panic. (The ESDA people are talking to them today.) Air monitoring will be done by IEPA on and off site during the removal. (Some preliminary monitoring has been done already.)

(The building is sealed shut with windows boarded up. During the removal action there will be a 24 hour person on site. The police are currently patrolling every half hour.)

2. Specific Objectives

C. COMMUNITY RELATIONS ACTIVITIES TO BE USED TO MEET OBJECTIVES

Activities	Objective	Staff	Workhour
1. Meetings with State and local officials	(Ongoing information exchange - informal.)		

2. Press Releases

We will issue a release upon completion of the removal action. (Should press inquiries be received, we will coordinate response with up-to-date information from our OSC on the site.)

*Represents workhours for non-EPA staff.

3. Fact Sheet

Length of time involved in this removal is anticipated to be very short - 3 to 4 days. None of the activities listed below are expected to be necessary at this time.

Should it become evident, removal action will require more time, we will re-evaluate.

4. Briefings

5. Public Meetings

6. Site Tours

*Represents workhours for non-EPA staff.

D. KEY CONTACTS LIST

Name	Affiliation	Phone Numbers Office
Bill Sims,	U.S. EPA, OSC	(217) 443-6012
John Schaffer	Director, ESDA, Vermilion County	(217) 443-6010 -for reaching via be (217) 443-6010
Mike Atchison	Public Affairs Officer, ESDA and City of Danville	(217) 431-2317
Danville Police		(217) 431-2234
David Palmer	Mayor, City of Danville	(217) 431-2400
Fire Dept. Jack Hardesty, Ass't Fire Chief.	City of Danville	(217) 431-2345
Robert Leininger	U.S. EPA, attorney	(312) 886-6720

APPENDIX J

TAT Reports

Danville Plating IL

EPA PROJECT

ECOLOGY AND ENVIRONMENT, INC.

MEMORANDUM: REGION V

COST CENTER EP151-5

TO: Mr. Bill Simes

FROM: Mr. Scott McCone, TATL

VIA: Technical Assistance Team

SUBJECT: Site Inspection of Danville Plating Company (5-8211-5)

DATE: November 24, 1982

COMMENTS:

On November 23, 1982, TAT member Sue Ahrendt assisted Bill Simes (U. S. EPA) with a site inspection at the abandoned Danville Plating Company facility. John Shaffer of the Vermilion County Emergency Services and Disaster Agency was also on scene to unlock the facility and act as a safety backup.

The facility consists of a building with three main rooms. (see sketch) Windows are boarded up and the roof is in poor condition, especially in the center room. Rainwater had leaked through in places and filled vats 12, 14, and 16 completely. An old wooden catwalk surrounds the vats 12-32 in the large room. Other debris is present both in the small rooms and around the vats and drums. There are approximately 20 drums in good condition outside of the facility, which are covered with weeds.

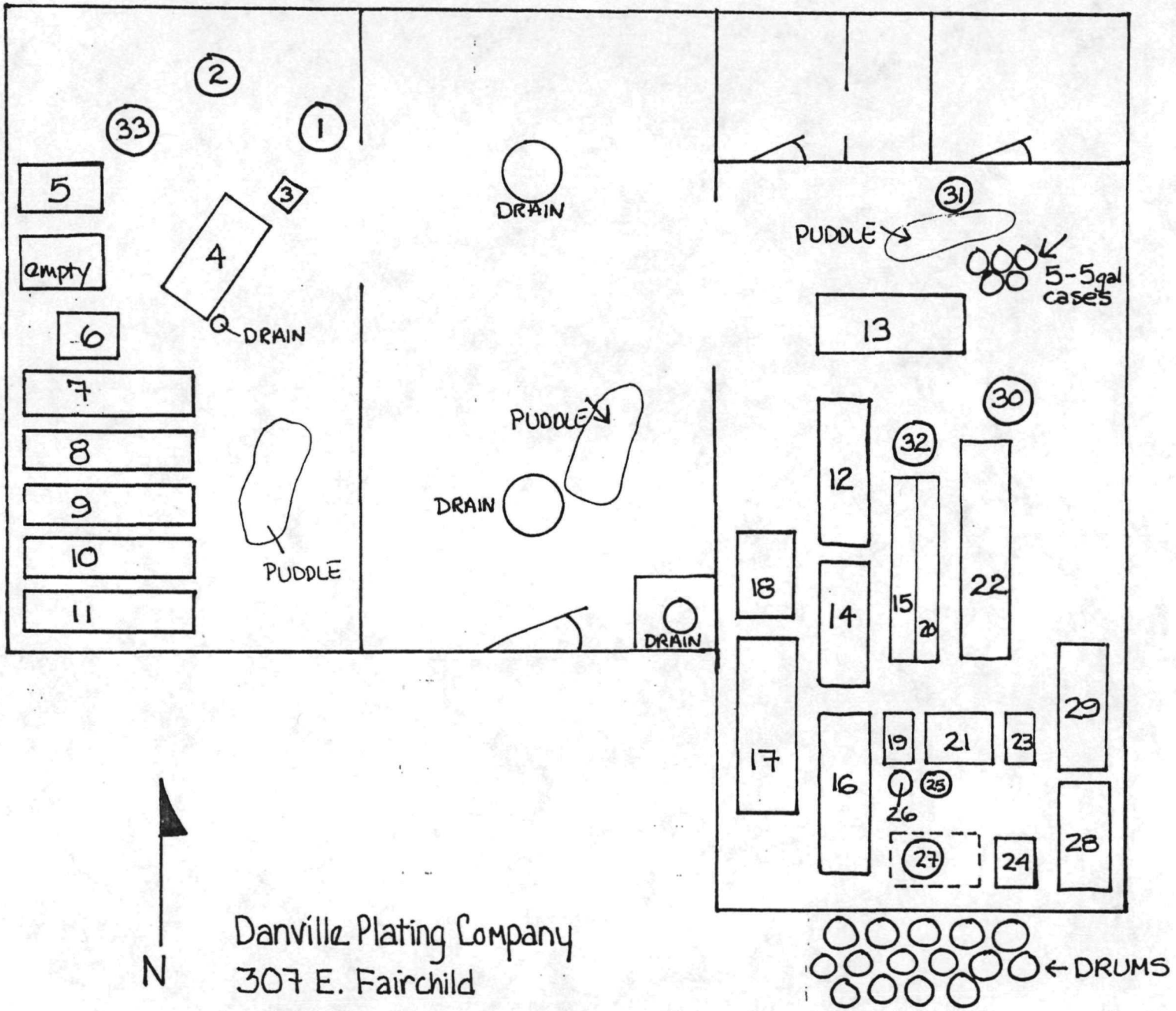
Personnel arrived on scene at 1300. It was raining and the temperature was about 40°F. Level "B" protection was used to enter the building. Drums and vats were numbered with spray paint and cyanide readings were taken using hydrocyanic acid (0-30 ppm) draeger tubes. No cyanide levels above 5 ppm were detected. In the room containing tanks 1-11, a reading of 5 ppm was detected directly above a puddle on the floor. The drain near vat #4 had a cyanide level of 2 ppm. Cyanide was not detected by the draeger tubes in the room containing vats 12-32. High humidity due to rain may have caused interference with the tubes.

Because the draeger tubes did not indicate cyanide levels greater than the TLV (10 ppm), level "C" protection was used for the second site entry. A pH meter was used to take readings in all accessible vats. Results are shown in the attached table. At 1530 the inspection was completed.

A site safety plan and sketch are attached.

Sue Ahrendt

Sue Ahrendt


2
33
1
5
3
4
empty
DRAIN
6
7
8
9
10
11
PUDDLE
DRAIN
PUDDLE
DRAIN
31
PUDDLE
5-5gal cases
13
30
12
32
22
18
14
15
20
17
16
19
21
23
29
25
26
27
24
28
DRUMS
N
Danville Plating Company
307 E. Fairchild
11-23-82
S. Arnendt

DANVILLE PLATING COMPANY

DANVILLE, ILLINOIS

Tank Number	Description	pH (pH Meter)	Cyanide (hydrocyanic acid draeger tubes)
1	Barrel labelled zinc cyanide		
2	Closed can		
3	Open plastic jug	0	
4	Open vat	9	
5	Open vat	5	
6	Open vat	4	
7	Open vat	7.5	
8	Open vat (no liquid)	-	
9	Open vat (no liquid)	-	
10	Open vat (no liquid)	-	
11	Open vat (no liquid)	-	
12	Open vat (full)	7,10 after stirring	
13	Open vat	0	
14	Open vat (full)	7	
15	Open vat	1	
16	Open vat (full)	7.5, 11 after stirring	
17	Open vat	8	
18	Open vat	6.5	
19	Open vat	2.5	
20	Open vat	0	
21	Open vat	0	

DANVILLE PLATING COMPANY

DANVILLE, ILLINOIS

(CONT.)

Description	pH (pH Meter)	Cyanide (hydrocyanic acid draeger tubes)
Open Vat	0	
Open vat	1	
Open vat	4	
Open bucket	3	
Open plastic pail 4" liquid	0	
Open drum	4	
Open vat containing grease	-	
Open vat	7	
Open drum	5.5	
Small open drum	3.5	
Open drum	0	
Open vat	0.5	
gallon Marked nickel brightener (6% by weight dioxane)		
n near	-	2 ppm
le near	6.5	5 ppm
le near	9.5	
le near	7.5	
oor drum	1	ND

ecology and environment, inc.

223 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60606, TEL. 312-663-9415

International Specialists in the Environmental Sciences

L REPORT

TAT CASE NUMBER

5-8211-5

spill: Continuous
ality: Danville, Illinois
ing waters: City Storm System
ry to: Vermillion River
d by: Bill Simes
ne: (312)353-2316
s: 530 S. Clark St./Chgo, IL
ation: U.S. EPA
Illinois

Time of spill: -
Type of Material: Metal Plating Solutions
Quantity: 21-55 Gallon drums, 17-Tanks
Source: Site Operations
Location of spill: Danville Plating Co.
(street, road, etc.) 307 E. Fairchild
Cause: Abandonment
Date of report: November 23, 1982
Time of report: 1415

---

l Action

	Yes	No
Notified	☐	☐
ed Water Supplies		
_____, Time _____	☐	☒

	Yes	No
Coast Guard Notified	☐	☒

Report taken by:

Hot Line Sue Ahrendt

---

igation (on scene) (telephone)

f investigator: Sue Ahrendt
f investigation: November 23, 1982
n:

Persons contacted:

Name	Affiliation	Telephone
1 Bill Simes	U.S.EPA	(312) 353-231
2		

Samples: Yes __ No x

of investigation and recommended containment and cleanup:

Safety Plan

Technical Assistance Team
Region V

I. A. Incident Information: See attached Initial Report Sheet

B. Material Information: See attached Chemical Evaluation Sheet(s)

C. Incident/Material Information Reliability: Good ___ Fair X Poor ___

D. Background Information: Extensive ___ Minimal X

E. Overall Hazard: High ___ Moderate ___ Low X Unknown ___

II. A. Incident/Site Description

1. Area Affected: Site only, less than 1 acre
2. Surrounding Population: _____
3. Building(s): one, 20' x 50'
4. Topography: Flat, urban area
5. Site Paln and Site Sketch Attached: Yes X No ___

B. Comments: _____

C. Site Entry Procedures: See attached Field Information Sheet

D. Emergency Precautions: See attached Field Information Sheet

E. Emergency Information/Telephone/Communications: See attached Field Information Sheet

III. Personnel Protection

Level of Protective Clothing: A ___ B X C ___ D ___

Was this Subsequently Downgraded?: Yes X No ___

If Yes, Explain: HCN levels less than 10 ppm → level C

List Specific Protective Clothing Required:

1. Disp. Suit, Boots, Gloves 3. Hard Hat 4. Neoprene Boots
5. Acid Gas Cannister Mask 6. SCBA if HCN > 10 ppm 7. Face Shield 8. _____

Field Monitoring Equipment and Materials Required:

1. HCN Draeger Tubes 3. Flashlight 4. pH Meter
5. _____ 6. _____ 7. _____ 8. _____

Decontamination Procedures:

Hotline Location: At site perimeter

PDS Stations: 1. Removal of disp. clothing 3. _____

4. _____ 5. _____ 6. _____ 7. _____

List Equipment, Materials, and Level of Protection Required:

1. Plastic bags 2. Wash hands 3. _____ 4. _____
5. _____ 6. _____ 7. _____ 8. _____

Prepared By: Sue Ahrendt Jerry Kelly

Date Prepared: 11/22/82

ecology and environment, inc.
223 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60606, TEL. 312-663-9415
International Specialists in the Environmental Sciences

Field Information Sheet

IV. Site Entry Procedures:

Team Size: 2

Station Designation (Name Responsibility)

Observers 2

Special Instructions:

V. Emergency Precautions:

Health Hazards: HCN gas

Excavation of Nearby People: Yes ___ No x
If yes, How Large an Area?

Acute Exposure Symptoms (if known): (Cherry Red Venous Blood)

First Aid Instructions for above Symptoms: Remove from area, give oxygen

VI. Emergency Information Sources:

	Name	Town	Phone (217)	Notified Yes	Notified No
Fire	Danville F.D.	Danville	431-2345		
Police	Danville P.D.	Danville	431-2211		
Ambulance	Arrow Ambulance	Danville	446-4646		
Hospital	Lakeview Med. Center	Danville	443-5221		
Airport	Vermillion County	Danville	443-6182		
Heliport	Vermillion County	Danville	443-6182		
EPA Contact	Bill Simes	Chicago	353-2316	x	
Explosive Unit					
Trauma Center List Other Resources	St. Elizabeth Hospital	Danville	443-5622		

VII. Emergency Telephone No.:

E & E Regional Office: (312) 635-6560
E & E NPMO Emergency Answersing Services: (716) 882-2804, 881-8151-Pager N
Dr. Harbison: (501) 370-8263
TAT Leaders Home Phone Number:
Other: Safety Manager (312) 824-2979

VIII. Communications:

Nearest Telephone: Nearby house
Communications Used on Site: Oral

Prepared By: Jerry Kelly Sue Ahrendt
Date Prepared: 11/22/82

ology and environment, inc.
EST JACKSON BLVD., CHICAGO, ILLINOIS 60606, TEL. 312-663-9415
tional Specialists in the Environmental Sciences

HAZARD EVALUATION OF CHEMICALS

5-8210-8

e Hydrogen Cyanide

onsulted (Circle)

ook Chris Merk Index (Sax) Aldrich CRC Toxic Safety Manual

perties:

mula: HCN | Molecular Weight: 27.03

te: Gas | Solubility: Mixes with water | Boiling Point: 78°F 25.7°C

Vapor Pressure: 400mm @ 9.8° | Freezing Point: 8.1°F -13.3°C

vity: 20°C | Odor/Odor Threshold: Data not Available | Flammable Limits: 5.6%-40%

faint odor of bitter almonds

Properties:

Grade 4

Human: LD50 Less than 50 mg/kg | Aquatic: 16 ppm 72 hour/Young Bass | Waterfowl: N/A

city: Extremely poisonous if absorbed through skin or eyes

mmendations:

ouch. Prevent accidental ignition. Stop leak and contain.

Use water spray to reduce vapors. Isolate area until gas

ersed.

ds and Recommendations:

on - Vapor very irritating and extremely poisonous

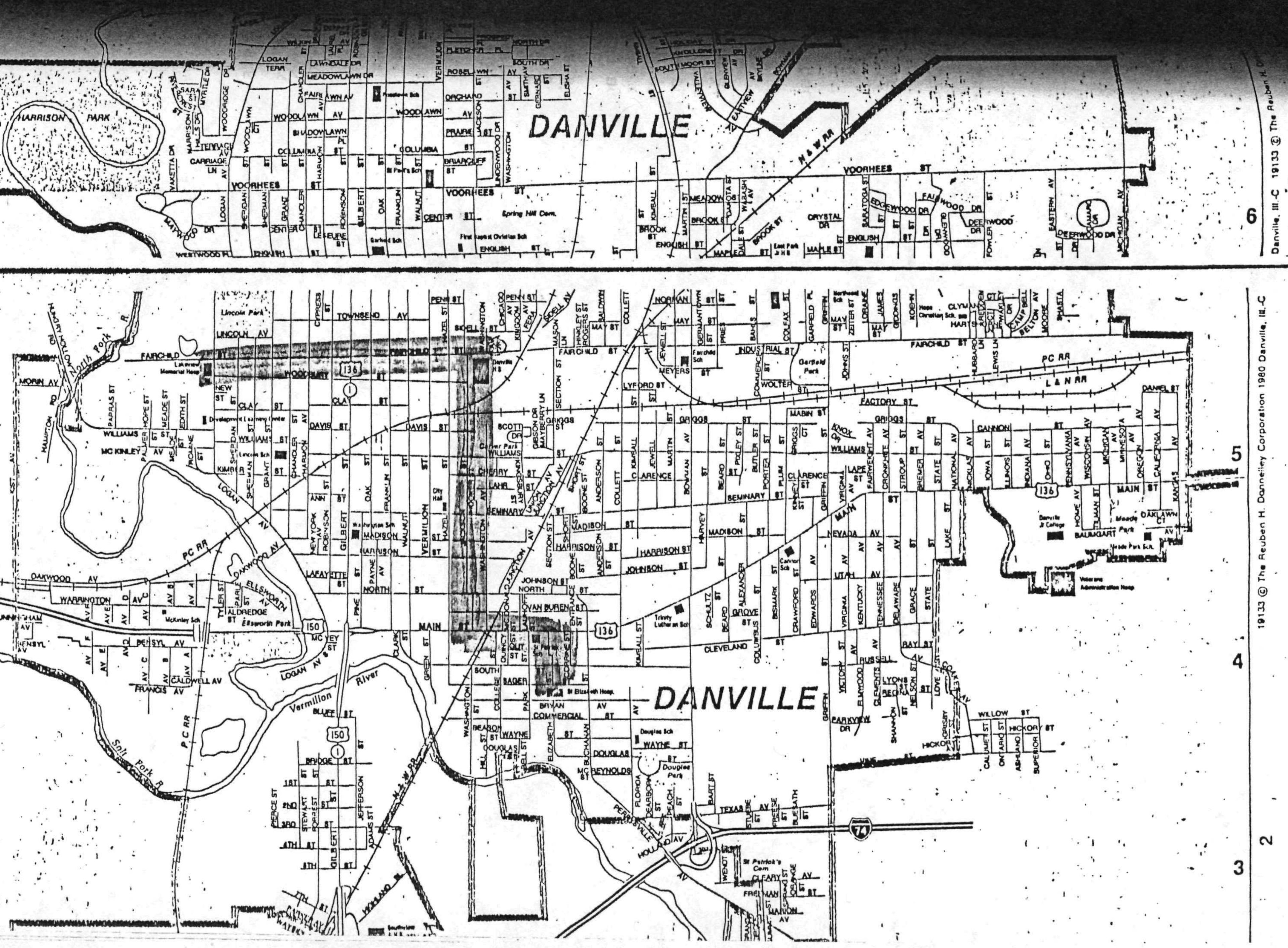
See Above

o fresh air, give artificial Respiration (not mouth to mouth)

ontaminated clothing, flush areas with H_2O, flush eyes

owed give H_2O or milk to induce vomit

Directions to Hospital



EPA PROJECT

ECOLOGY AND ENVIRONMENT, INC.

MEMORANDUM: REGION V

COST CENTER EP151-5

Mr. Bill Simes

Technical Assistance Team

Mr. Scott McCone, TATL

CT: Monitoring of Cleanup at Danville Plating Company, Danville, Illinois (5-8211-5)

December 1, 1982

NTS:

onday, November 29, 1982, TAT Leader Scott McCone and TAT er Lisa Perenchio arrived at the Danville Plating Company to tor the cleanup. A command post was set up and the building opened up to allow more light and ventilation. A cyanide was overpacked and the liquids in the west room were pumped and solidified.

uesday, November 30, 1982, sludges in west room were idified and put into recovery drums. Empty vats and debris est room were washed down and removed from the building. west room floor was scraped and the center room floor was ed down. Wash water was sucked into vacuum truck.

ached to this report are the log and daily CERCLA summary ts. Also attached is the CERCLA daily work order for mber 29, 1982. Bill Simes has the work order for mber 30, 1982. The Roy F. Weston TAT will monitor the ainder of the cleanup.

a Perenchio

Perenchio

DANVILLE PLATING COMPANY

DANVILLE, ILLINOIS

DAILY LOG

Monday - November 29, 1982

Weather: Overcast, light mist, 50°F, winds out of the south.

Log for Today

1030 TAT Leader Scott McCone and TAT member Lisa Perenchio arrived on site. OSC Bill Simes informed TAT that Petrochem arrived at 0830. Scott McCone suggested that the door on the north side of the building be opened to provide an additional escape route and more light and ventilation. He also suggested that the liquids in the west room be pumped out of the window for easier access.

Ed Gielow, ESDA Communicator was on site and will be for the duration of the cleanup.

1100 TAT donned level "C" protection and monitored several locations in the building with hydrocyanic acid draeger tubes. The only reading detected was 2 ppm in the southwest corner of the building.

1130 TAT instructed Petrochem on how to fill out the 1900-55 forms.

1145 Break for lunch.

1215 Returned from lunch. Petrochem was removing the plywood from the doors and windows of the building.

1230 Scott McCone noticed that a light was on in the electrical box outside of the building, indicating that power was still going to the box even thouth the electricity was supposed to be turned off.

1240 Door on north side of building was opened. Solidification will not gegin until 1430, when the high school across the street gets out for the day.

1320 Two tons of lime arrived on site from the Material and Fuel Company of Danville.

1350 Bill Simes and Gary Steele, IEPA, departed to ask residents downwind (north) of building to evacuate for three hours during solidification in case of a vapor release.

1425 Cement mixer arrived on site. George Burnett of Illinois Power arrived to cut power lines to building.

1435 Power lines were cut.

1440 Assistant Chief Hardesty, Danville Fire Department, Paul Krabbe, City Health Inspector, Clark Baker, City Engineer, and John Schaffer, City and County Emergency Services and Disaster Agency (ESDA) arrived on site.

1450 Mr. Lockhart, a resident downwind, returned home and was asked to evacuate. He refused, agreeing to remain at his own risk. The air compressor would not start. Ellen Ellis and Alva Devore of Illinois Power joined George Burnett to disconnect and remove electrical box.

1535 The cyanide drum was placed in a recovery drum and overpacked with vermiculite. A new air compressor arrived on site.

1545 Pumping and solidification of liquid in west room began.

1600 Messrs. Hardesty, Krabbe, Baker, and Schaffer departed.

1700 Pumping and solidification of liquids in west room was completed.

1730 Security guard arrived on site.

1800 Site was secured.
TAT and Petrochem departed.

Tuesday - November 30, 1982

Weather: Partly sunny, 55°F, winds out of the south.

Log for Today

0745 TAT and Petrochem arrived on site. Daily forms were completed.

0830 Equipment van with 60 recovery drums and 4 drums of sodium hypochlorite arrived.

0840 Illinois Bell representative Ron Thiede arrived to install site phone.

0920 Drums were unloaded. Solidification equipment was set up in new location.

0930 Removal of sludges in west room commenced.

1030 Washdown of debris can begin as soon as the city turns the water back on. Gary Steele, IEPA, monitored solids cleanup with draeger tubes. No cyanide was detected.

1100 A section of the wall under a window on west wall was knocked down to facilitate removal of empty vats.

1200 Gary Steele, IEPA monitored operations with draeger tubes and obtained readings of 0.5 ppm in the southwest corner of the building and 1.0 ppm on the north wall.

1215 Break for lunch.

1230 Returned from lunch and work resumed.

1345 Marion Case of Petrochem was concerned that even after washdown, the vats could not be considered decontaminated because of the heavy scaling. Bill Simes decided to take a composite sample of the scale to determine if the vats could be taken to a landfill as special waste.

1530 Mr. Vanetti arrived on site and informed Gary Steele that the drums outside of the building were solution from defunct plating company taken by the Danville Plating Company about 20 years ago and have been there, untouched, ever since.

1550 Washdown of debris and center room was completed. All wash water was sucked into the vacuum truck.

1630 Work was completed for the day and TAT departed.

DAILY SUMMARY CERCLA CLEANUP

Date: November 29, 1982 Time Commenced Work 0830 Time Completed Work 1800

Facility: Danville Plating Company

Contractor(s): Petrochem

Type of Personnel: 2-Superintendents, 1-Supervisor, 3-Operators, 1-Laborer

Equipment Utilized: Utility Truck, Air Compressor, Decontamination Trailer, 2-Personnel Vehicles, Vacuum Truck, BobCat, Level "C" Protective equipment - 2 sets/day/man, Drum Cart, 250' Air/Water Hose, 25-Recovery Drums, 2-Air Diaphragm Pumps, 125' Suction Discharge Hose, 2-Generators with Lights.

Scope of Work Completed: Mobilization; building was opened up for light and ventilation, Liquids in vats in west side of building were pumped out and material was solidified, cyanide drum was put into a recovery drum and packed with vermiculite.

Comments: Residents downwind were evacuated during solidification. One resident, Mr. Lockhart, refused to leave and was warned that he was remaining at his own risk. Electrical lines to building were cut after it was discovered that there was still power going to the building.

Future Plans: Wash down and removal of empty vats and debris in west side of building. The floor will be scraped and washed down in west side. Disposal options of material in east side of building will be decided.

DAILY SUMMARY CERCLA CLEANUP

Date: November 30, 1982 Time Commenced Work 0745 Time Completed Work 1630

Facility: Danville Plating Company

Contractor(s): Petrochem

Type of Personnel: 2-Superintendents, 1-Supervisor, 3-Operators, 2-Laborers

Equipment Utilized: Equipment Van, Utility Truck, Air Compre-sor, Decontamination Trailer, 2-Personnel Vehicles, Vacuum Truck, Bobcat, Level "C" Protective Equipment, 2-Sets/day/man, Drum Cart, 250' Air/ Water Hose, 25-Recovery Drums, 2-Air Diaphragm Pumps, 125' Suction Discharge Hose, 2-Generators with lights

Scope of Work Completed: Sludges in vats were solidified and put into drums. Empty vats and debris were decontaminated and removed from west side of building. Floor in west side was scraped. Floor in middle room was washed down. Wash water was sucked into vacuum truck.

Comments: A composite sample of the liquids in east room was sent to CECOS/CER who may take them to their landfill in Calumet.

Future Plans: Wash down of floor in west room removal and washdown of debris in east room.

CERCLA DAILY WORK ORDER | Page 1 of 1

Work Site: Danville Plating | Contract No.: 68 95-0052 | Site/Spill No.:

Location and Region: Danville, IL Region V | Date: 11/29/82 | Shift:

Contractor: Petrochem | On-Site Representative:

1. MONITOR(S)

Bill Simes, OSC/U.S. EPA

Scott McCone and Lisa Perenchio (TAT) Ecology and Environment

2. DESCRIPTION OF WORK TO BE PERFORMED

Set up command post, pick up debris, secure area, set up drainage system, commence solidification in west room.

3. AMENDMENTS (Include Time and Authorizing Person)

4. NUMBER OF PERSONNEL AUTHORIZED

1 Supervisors
1 Laborers
2 Foreman
____ Other (Specify): _____
3 Operators

5. EQUIPMENT AND EXPENDABLE MATERIALS AUTHORIZED

Item	Quantity	Item	Quantity
Level C Protection	2/man/day		

I certify that the above work is ordered and authorized by the contractor in the performance of the above cited contract.

I fully understand my obligation to the EPA in the conduct of my contract, and as directed by the confines of this Work Order.

Signature of OSC Representative:

Signature of Contractor's Representative:

NOTICE TO PROCEED WITH EMERGENCY RESPONSE TO HAZARDOUS SUBSTANCE RELEASE

EPA Form 1900-49 (Rev. 6/82)

1. Contract Number	2. Effective Date	3. Negotiation Authority:
68-05-0052	NOVEMBER 26, 1982	41 U.S.C. 252(c)(2)

4. Issued By
U.S. ENVIRONMENTAL PROTECTION AGENCY
REGION V
536 S. CLARK STREET
CHICAGO, ILLINOIS 60605

5. Administered By
Environmental Protection Agency
Headquarters Procurement Operations (PM-214-F)
401 M Street, S.W.
Washington, D.C. 20460

6. Contractor Name and Address
PETROCHEM SERVICES, INC
P.O. BOX 339
LEMONT, ILLINOIS 60439

7. Paying Office
Environmental Protection Agency
Financial Management Division (MD-32)
Attn: Contracts Financial Operations
and Information Section
Research Triangle Park, N.C. 27711

8. Accounting and Appropriation Data

Appropriation Number	DCN	Account Number	Object Class	Obligated Amount
68-20X8145	5950011	3TFA725E99	25.35	$50,000.00

9. Incident Number
N/A

10. Activity Code
N/A

11. SCHEDULE

ARTICLE I - STATEMENT OF WORK

The Contractor shall furnish the necessary personnel, materials, services, facilities, and otherwise do all things necessary for or incident to the performance of the work set forth below:

1. SAMPLE AND ANALIZE ALL VATS, DRUMS, AND OTHER CONTAINERS FOR HEAVY METALS, CYANIDES AND OTHER PRIORITY POLLUTANTS
2. NEUTRALIZE, SOLIDIFY AND/OR DISPOSE OF ALL LIQUIDS AND SOLIDS PRESENT INSIDE AND OUTSIDE THE DANVILLE PLATING FACILITY
3. DECONTAMINATE THE WALLS AND FLOORS OF THE BUILDING AS WELL AS ALL CONTAINERS AND DEBRIS PRESENT IN THE BUILDING.
4. TRANSPORT ALL CONTAMINATED LIQUIDS AND SOLIDS IN ACCORDANCE WITH DOT REGULATIONS AND DISPOSE OF THE MATERIAL IN AN APPROVED DISPOSAL SITE
5. PREPARE AND MAINTAIN A SITE SAFETY PLAN IN ACCORDANCE WITH OSHA REQUIREMENTS
6. MAINTAIN ON SITE SECURITY AT THE SITE FOR THE DURATION OF THE PROJECT
7. COMPLETE ALL REQUIRED FORMS TO DOCUMENT THE CLEANUP INCLUDING EPA FORM 1900-55 ON A DAILY BASIS
8. PROVIDE THE FEDERAL OSC WITH A FINAL REPORT AND BILL WITHIN 30 DAYS AFTER THE COMPLETION OF THE PROJECT.

(See Continuation of Schedule on pages 2 through 9)

AWARD

12. Name of Contractor	15. United States of America
By Marion D. Case (Signature of Person Authorized to Sign)	By (Signature of Contracting Officer)

13. Name and Title of Signer (Type or Print)	14. Date Signed	16. Name of Contracting Officer (Type or Print)	17. Date Signed
MARION D. CASE MANAGER TECH. SERVICES	11/26/82	WILLIAM W. SIMES	11/26/82

PERSONNEL ENTRY AND EXIT LOG

Work Site: Danville Plating
Date: 12-1-82

Time In	Time Out	Name	Representing
0800		Petrochem Crew (8)	Petrochem
"	1601	1) L. Paulich	" "
"	1600	2) M. Case	" "
"	1800	3) R. Vercellotte	" "
"	1400	4) Ric. DeHoyos	" "
"	1530	5) E. Pyttinski	" "
"	1530	6) B. Hamilton	" "
"	1530	7) T. Paulich	" "
"	1530	8) J. Young	" "
"	1615	Jeff Stofferahn	Weston-Sper- TAT
"	1615	Mark Henke	" "
"	1300	Bill Simes	U.S. EPA
"	1615	Mr. Schaffer	City of Danville
1000	1615	Geoff Langley	~~Illinois EPA~~
1030	1050	Harold Caldwell	Danville School Board
1030	1050	Raymond Scarce	" "
1220	1245	Larry Lessen	Owner's Attorney
			Owner of property

PERSONNEL ENTRY AND EXIT LOG

Work Site: Danville Plating
Date: 12-2-82

Time In	Time Out	Name	Representing
0800	1600	Petrochem Crew	Petrochem
"	"	1) L. Paulich	" "
"	"	2) M. Case	" "
"	"	3) R. Vercellotte	" "
"	"	4) R. DeHoyos	" "
"	"	5) E. Pyttinski	" "
"	"	6) B. Hamilton	" "
"	"	7) T. Paulich	" "
"	"	8) J. Young	" "
"	"	J. Stofferahn	Weston-SPER-TAT
"	"	M. Henke	" "
0900	"	Bill Simes	U.S. EPA
0800	1200	Mr. Schaffer	City of Danville
"	1600	Bill Darner	" "
"	1200	Duckett Disp. Driver	" "
0830	1200	Envirite Lab Driver	" "

PERSONNEL ENTRY AND EXIT LOG

Work Site: Danville Plating
Date: 12-3-82

Time In	Time Out	Name	Representing
0730	1300	Petrochem Crew (8)	Petrochem
"	"	1) L. Paulich	" "
"	"	2) M. Case	" "
"	"	3) R. Vercellotte	" "
"	"	4) E. Prylewski	" "
"	"	5) B. Hamilton	" "
"	"	6) J. Young	" "
"	"	7) T. Paulich	" "
"	"	8) R. DeHoyos	" "
"	"	Jeff Stofferahn	Weston-SPER- TAT
"	"	Mark Henke	" "
"	"	Bill Simes	U.S. EPA
"	"	Mr. Darner	City of Danville

PERSONNEL ENTRY AND EXIT LOG

Work Site: Danville Plating
Date: 12-6-82

Time In	Time Out	Name	Representing
0400	1600	Petrochem Crew (8)	Petrochem
"	"	1) L. Paulich	" "
"	"	2) M. Case	" "
"	"	3) R. Vercellotte	" "
"	"	4) E. Pyttinski	" "
"	"	5) B. Hanilton	" "
"	"	6) T. Paulich	" "
"	"	7) R. Jungles	" "
"	"	8) R. Blanton	" "
1145	1600	K. Pierard	Weston-SPER- TAT
"	"	D. Ballotti	" "
0830	1600	Bill Simes	U.S. EPA
"	"	Mr. Martin	Danville Security
0800	"	Bill Darner	ESDA

PERSONNEL ENTRY AND EXIT LOG			Work Site: Danville Plating Date: 12-7-82
Time		Name	Representing
In	Out		
0800	1600	Petrochem Crew (8)	Petrochem
"	"	1) L. Paulich	" "
"	"	2) M. Case	" "
"	"	3) R. Vercellote	" "
"	"	4) E. Prylewski	" "
"	"	5) B. Hamilton	" "
"	"	6) T. Paulich	" "
"	"	7) R. JUngles	" "
"	"	8) R. Blanton	" "
0800	1550	K. Pierard	Weston-SPER- TAT
"	"	D. Ballotti	" "
0900	1530	Bill Simes	U.S. EPA
"	"	Bill Darner	ESDA

PERSONNEL ENTRY AND EXIT LOG

Work Site: Danville Plating
Date: 12-8-82

Time In	Time Out	Name	Representing
0730	1630	Petrochem Crew (7)	Petrochem
"	"	1) L. Paulich	" "
"	"	2) R. Vercellotti	" "
"	"	3) E. Pytlewski	" "
"	"	4) B. Hamilton	" "
"	"	5) T. Paulich	" "
"	"	6) R. Jungles	" "
"	"	7) R. Blanton	" "
0800	1700	K. Pierard	Weston-SPER TAT
"	"	D. Ballotti	" "
"	"	B. Simes	U.S. EPA
"	"	B. Darner	ESDA

PERSONNEL ENTRY AND EXIT LOG

Work Site: Danville Plating
Date: 12-9-82

Time In	Time Out	Name	Representing
0730	1600	Petrochem Crew (7)	Petrochem
"	"	1) L. Paulich	" "
"	"	2) R. Vercellote	" "
"	"	3) E. Pytlewski	" "
"	"	4) B. Hamilton	" "
"	"	5) T. Paulich	" "
"	"	6) R. Jungles	" "
"	"	7) R. Blanton	" "
0800	"	K. Pierard	Weston-SPER-TAT
"	"	D. Ballotti	" "
0900	"	D. Simes	U.S. EPA
"	"	B. Darner	ESDA

PERSONNEL ENTRY AND EXIT LOG			Work Site: Danville Plating Date: 12-10-82
Time		Name	Representing
In	Out		
0730	1000	Petrochem Crew (7)	Petrochem
"	"	1) L. Paulich	" "
"	"	2) R. Vercellotte	" "
"	"	3) E. Pylewski	" "
"	"	4) B. Hamilton	" "
"	"	5) T. Paulich	" "
"	"	6) R. Jungles	" "
"	"	7) R. Blanton	" "
0800	1000	K. Pierard	Weston-Sper -TAT
"	"	D. Ballotti	" "
0800	0915	B. Simes	U.S. EPA

PERSONNEL ENTRY AND EXIT LOG

Work Site: Danville Plating
Date: 12-13-82

Time In	Time Out	Name	Representing
0400	1530	R. Jungles	Petrochem
0400	1200	B. Hamilton	" "
0730	1130	R. Blanton	" "
1145	1545	K. Pierard	Weston-SPER-TAT